

THE



ECHNO

GRIND

V.E.S Polytechnic computer engineering department

- DECEMBER 2022

Volume 8

Issue - 1

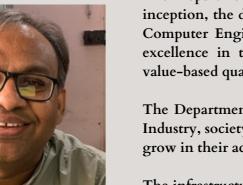
A. Y. 2022-23







HOD's DESK



Mr. Sanjay Wankhade

The Department was established in the year 2010 and since its inception, the department has evolved from offering a Diploma in Computer Engineering Course with the vision "To be center of excellence in the field of Computer Engineering by providing value-based quality technical education."

The Department works to address critical challenges faced by the Industry, society, and academia and also makes the student ready to grow in their academic pursuits with the skill.

The infrastructure and lab facilities are upgraded from time to time and provide a good practical and innovative learning environment for the students. The Department faculties work with excellent team spirit in different technical teams like the Web Development team, Networking and computer security team, and Application development team.

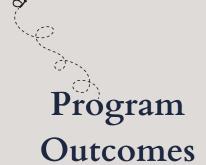
To motivate the students, the Department organizes regular Guest Lectures, training in state art of software & hardware, arranges workshops with CSI, technical events, seminars & industrial visits.

We welcome you to the Computer Engineering Department as a Diploma student and we hope to be part of your success.

Vision and Mission

- To be centre of excellence in the field of computer engineering by providing value based quality technical education.
- To impart and inculcate both theoretical as well as practical knowledge in students.
- To develop competent professionals who are proficient in analysis, design and implementation of broadly-defined computer problems.
- To create confident youth with a sense of duty, discipline and responsibility.
- Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.
- Adapt state-of-the-art Computer engineering broad-based technologies to work in multi disciplinary work environments.
- Solve broad-based problems individually and as a team member communicating effectively in the world of work.





- Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.
- Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- "Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- Life-long learning: Ability to analyze individual needs and engage in updating in the context of technological changes.
- Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.
- Computer Engineering Maintenance: Maintain computer engineering related software and hardware systems.

Program
Specific
Outcomes

Idol's Teachings



"Ignorance is the mother of all the evil and all the misery we see. Let men have light, let them be pure and spiritually strong and educated, then alone will misery cease in the world, not before. We may convert every house in the country into a charity asylum, we may fill the land with hospitals, but the misery of man will still continue to exist until man's

character changes."

Editor's words

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The Computer Engineering Department newsletter "The Techno Grind" is a bi-annual publication of the Department. It is written and edited by the department students selected in the newsletter committee. The students in the newsletter committee are selected through the process of first applying for the various posts in the newsletter committee ,application scrutiny followed by personal interviews . Newsletter includes a detailed report of the Department activities. The students and the teachers get a scope to show their creative power through it. The newsletter contains poems, articles, short stories short essays, reports of activities of various societies in the Department and an elaborate photo gallery providing glimpses of the campus activities.

The newsletter committee invites writings from the students. The editorial board selects the qualified ones for printing. The Department newsletter serves many useful purposes. The most important is that it brings out the latent creative talents of the students and thus helps them to form the habit of reading and writing. It also helps them to hone their intellectual skills as well as benefits in widening the horizons of knowledge. This gives a chance to the other students to be inspired by their peers' experience. The department newsletter "The Techno Grind" reflects the academic and co-curricular activities of the Department.

Every year, a team of editors, artists, photographers and designers deliberate over each page of the newsletter to ensure that the final issue is reflective of the collective vision of Computer Engineering Department in all its heterogeneous variety.

Thanks & Regards,

Vidya S Lunge In Charge Exam Cell V.E.S. Polytechnic, Mumbai



STAFF ACTIVITIES



Apart from the student's development, the department also focuses on faculty development so that the teachers can adapt themselves with the technological changes. Hence, the department encourages the staff to participate in the training programs, conferences and workshops.

- Mrs. Vaishali Bodhale, Mrs. Meena Talele, Mrs. Shubhangi Chintawar and Mrs. Shubhra Tonge attended a one week online workshop on "Deep Learning with Python" conducted by AISSMS, Institute Of Information Technology, Pune.
- Mr. Dilip Nitture attended a one week offline workshop on "Emerging trends in computer technology" conducted by Saraswati Institute of technology, Kharghar.
- One day online curriculum design workshop on "Curriculum revision of Emerging Trends In Electronics (22636)" and "Emerging Trends In Electronics (22636)" conducted by MSBTE was attended by Mrs. Vidya Lunge.
- Mrs. Vaishali Bodhale, Mrs. Sangita Bhoyar and Mrs. Shubhra Tonge attended a twelve weeks online NPTEL course on "Digital circuits" conducted by NPTEL.
- Mrs. Shubhangi Chintawar attended twelve weeks online NPTEL course on "The joy of Computing using Python" conducted by NPTEL.
- ★ Mrs. Vidya Lunge attended a twelve weeks online NPTEL course on "Introduction to Industry and Industrial Internet of Things" and four weeks online NPTEL course on "Great Experiments in Psychology" conducted by IIT Kharagpur.
- * Mrs. Deepa Gupte attended twelve weeks online NPTEL course on 'Physics of Renewable energy systems" conducted by IIT Kharagpur.
- ★ Mrs. Aditi Yadav attended twelve weeks online NPTEL course on "Biological Inorganic Chemistry" conducted by NPTEL.

STUDENT ACTIVITIES



Desh Rangeela: A poster making competition on Frontline workers of Nation. Humari DeshBhakti: A poem writing competition: On 18th August 2022, the 75th Independence Day, Students were asked to create posters and write poems on the given topics. The winners of competition were:

• Poster Making:

1st Prize: Sayali Golatkar (CO3I-A), Kavya Palishkar (CO3I-B)

2nd Prize: Aayushi Wani (CO5I-A), Esha Daiya (CO3I-A)

3rd Prize: Moniskha Jethani (CO3I-B)

Poem Writing:

1st Prize: Fariya Baig(CO3I-B)

2nd Prize: Monishka Jethani (CO3I-B) 3rd Prize: Samiksha Desai (CO3I-B)



Poster Making Competition (TPP Workshop): On 10th September, 2022, The students of 3rd year were asked to create technical posters in a group.

The winners of the competition were:

1st Prize: P17- Roll No. 5,6,7 & P16- Roll No. 25,26,27

2nd Prize: P16-Roll No. 16,17,29 & 22,28,51 & P17- Roll No. 25,26

3rd Prize: P17-Roll No. 42,45,48 & 11,27,41

CSI Events: On 12th September, 2022 IOT and IOT based projects by Kushi Khanchandani, Amrita Naiksatam, Shweta Chachra from K.J. Somaiya college of Engineering gave an amazing presentation for the 2nd year and 3rd year students.

CSI Quiz Competition: On 23rd September, 2022 Technical - Geek-O-Pedia conducted was based on some basic fundamentals of C programming, HTML and Computer peripherals. The winners of the competition were:

Aayush Subhash Balip (CO3I-B) Lalit Ravi Bajaj (CO3I-A) Zaid Nadeem Kazi (CO3I-A)



Agree To Disagree (Group Debate Competition): On 12th October, 2022 Competitive Group Debate that heated the room took place for the students of 1st year. Most interesting facts and comebacks were seen during this debate. The winners of the competition were:

1st Prize: Yug Agarwal, Shresth Singh, Manthan Kalyani and Rutu Bauva (CO1I)

STUDENT ACTIVITIES



Engineer's Day Celebration

3rd year: Technical paper presentation, Group discussion

2nd year: Poster making competition: On 15th September 2022, Engineers day, students of 2nd and 3rd year were given opportunities to participate in events to win certificates and create creative projects that can be remembered by everyone.

The winners of the competition were:

3rd Year:

- Technical Paper: Smit Rambhia, Gandhar Bagade, Aayush Satra, Riyaz Memon, Chahat Nathwani (CO5I-B)
- Group Discussion: Smit Rambhia, Gandhar Bagade, Aayush Satra, Riyaz Memon (CO5I-B)



2nd Year:

• Poster Making: 1st Prize: Esha Daiya & 2nd Prize: Sayali Golatkar (CO3I-A)

Teacher's Day (Greeting Card Making): On 27th September,2022 the students were asked to make greeting cards and write something memorable or the things they love about their teachers without specifying which teacher. The winners of the competition were:

1st Prize: Mrunmayee Dalvi (CO5I-A)

2nd Prize: Sanskruti Yadav (CO3I-A) & Fariya Baig (CO3I-B)

Article writing competition (Gandhi Jayanti): On 04th October 2022, the students from every department were asked to write an article from the selective topics and the winners from every department awarded with certificates. The winners of the competition were:

1st Prize: Prerna Bahrani (CO3I-B) 2nd Prize: Rohit Motwani (CO5I-B) 3rd Prize: Atharva Naik (CO5I-A)

DegenDive Web 3.0 Session on Al and VR: On 30th November, 2022 A session was

conducted for the students of 2nd and 3rd Year by Vyan Gandhi for the knowledge on virtual reality and artificial intelligence that left students amazed and students were given a chance to try the VR headsets.



README



GREEN PLANET, HEALTHY PLANET!!



On 15th October,22 Vivekanand Education Society's Polytechnic, Chembur successfully completed the event of Tree Plantation under the National Service Scheme (NSS) at college campus. Trees are the foremost source for producing the oxygen in environment, they help to reduce the level of CO2. As we all know that the whole world is facing the problem of global warming and to recover from such problem planting the trees is become one of the most important aspects of today.

In this auspicious event, Mr. Vishulala sir (Trustee of VESP), Mr. Vikrant Joshi (Principal of VESP) and many other respected members and teachers were also present along with 16 NSS members . 20 saplings were planted in all in the garden near the canteen in college premises.



SCIENCE - SO VAST YET SO DOWN TO EARTH!!

The industrial visit to Nehru Science Centre on 13th September, 2022 was an informational trip for all the second and third year students of Computer Department of VES Polytechnic. The trip was planned for the students to have a look at the amazing innovations and sciences behind the most basic things in the world that humans interact with on a daily basis.

The center was opened to public of India by the then Prime Minister of India Rajiv Gandhi for the purpose of spreading the knowledge about different sciences and intrigue great minds in the field and that purpose was definitely served. The building was surrounded by a variety of trees and shrubs with seating arrangement between the nature.

The visit to the center astonished a lot of students and raised many amazing questions in their minds regarding science. The sciences behind different phenomenon was displayed at the center in terms of vision, energy, kinematics, sound, mechanics and computers.

The visit was concluded with amazed students who then proceeded to the canteen for food. The experience was truly amazing and everyone went home with new knowledge regarding science.





Time Spent with Nature



The industrial visit to Maharashtra Nature Park on 27th September 2022 was an informational trip for all the third-year students of the computer department of VES polytechnic. The trip was planned for the students to look at various activities related to Nature Conservation and Environmental Education. The park was declared open to the people on 22nd April 1994 i.e. "Vasundhara Divas-World Earth Day". The park is now converted into an Environment Education Park and thousands of students as well as visitors visit the park every year for the study of Nature and Environment related issues. Being fine abode to several species of flora and fauna, the park is visited mostly by nature lovers.





Our next industrial visit to Sanjay Gandhi National park on 11th of November 2022 was an informational trip for all third-year students of the computer department of VES polytechnic. The trip was planned for students to look various activities related to Nature and about our Ancient History. Sanjay Gandhi National Park is said to be one of the most visited national parks in Asia. Hundreds of thousands of visitors travel to the Kanheri Caves. Main attractions of the park are lion and tiger safaris for encouraging ecotourism. Nature trails and treks are also popular. Rock climbing enthusiasts often visit the national park as the numerous rock faces there and at the Kanheri Caves offer opportunities for rock climbers. The Kanheri caves, located centrally in the park, were important Buddhist learning centres and pilgrimage sites sculpted by Buddhist monks.

This was an opportunity to learn and enjoy the outdoors with our classmates and teachers. We gained a solid understanding of how sustainability is used in real world and our history like about caves that had fantastic learning.



Artville



Aayushi Wani (CO5I-A)



Anmol Soneja (CO1I-A)



Vaishanavi Shejale (CO5I-A)



Mrunmayee Dalvi (CO5I-A)



Muskan Karamchandani (CO3I-B)



Sayali Mohan (CO3I-A)

PARA PARA PARADISE



I HEART SKY

I never thought that something could be more beautiful than the stars and the moon but then I look at the Sky

Unfolding my wings to fly high Just wanna find the softest grass I can find to lay my head in it

And look at the sky a little bit

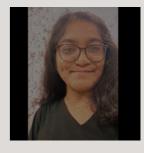
Here comes the clouds so light

Beautiful, swift and bright!

Just like an infinite movie, I never get tired looking

at you

Who can even miss such a view?
And I fell in love again more than before
With me, the ombre sky and seashore.........



Niyati Vichare CO5I-A

FROM THE SOIL. TO AND FRO

From Birth, Back to earth One day, it will all be dusted.

The mornings of glory,

And nights of worry;

From the first best friend, to the last small circle.
One day, it will all be dusted! From, that first failure to that final success.

The Journey has the access.

For every tear cried, for every trial tried! One day, it will all be dusted.

From the fear to lose, to the fomo of not living enough.

From that first pain, to reach core of zen.

One day, the road will all be dusted!. From the days when homework was the only issue

to the era where keeping the home working well.

LIFE HAPPENS!

So, for how failure tasted, to make it all worth it, lets shine before the phase is wasted!

Before, one day it all gets dusted!

Find Your exuberance Today, Coz tomorrow might not be a day! So, rise, shine, explode, before you are rusted.

because, one day
It will all be dusted!
From Birth, Back to earth
It will all be dusted!



Rutu Bauva CO1I-A







IS TECHNOLOGY A BANE OR BOON?

By Ishwari Nawathye (CO5I-A)

Technology is a word with a wide concept. It could not be explained in few words. It has been helping us in making our life a more convenient one. It is very difficult to imagine our life without these technological tools. Technology is the idea or creativity turned into practicality thereby resulting in the development of a device or machinery.

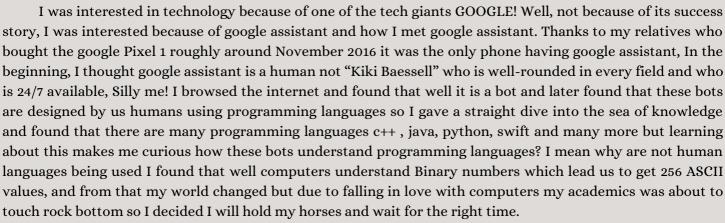
Technology helps us improve our lives and make things easier. However, there are two sides to everything. Undoubtedly, AI will grow further, but I am sure it will have both a positive and a negative impact on the world. The positive aspects of technology are Reduces the Workload, Reduces the Workload, A new light to the field of Medicine, Cashless Transactions, Enhanced Communication Made Learning Easier, and Technology has totally changed the way of teaching and learning. By this we cannot stop myself from agreeing that yes, while Artificial Intelligence is going to make life easier with all the advanced gadgets, but what about human beings? Where will we go? Are jobs going to exit? Will they stay secure?

Technology affects our sleeping habits, Technology has definitely impacted how we sleep. Many of us stay up far too late into the night texting friends or scrolling through social media. Technologies, such as handheld tablets, smartphones, and computers, can hold a person's attention for long periods. This may lead to eyestrain. It is possible for us to reduce technology's significant harm to our environment, our health by overcome unnecessary use of technology.

Technology is easy to be spelled of but has a very vast explanation. Its application has changed our life from nomadic dwellers to civilized people of today. The day is not so far when artificial intelligence will excel and the role of the human being will shrink just as the slaves of technology. It totally depends upon us that how we will be utilizing the same.

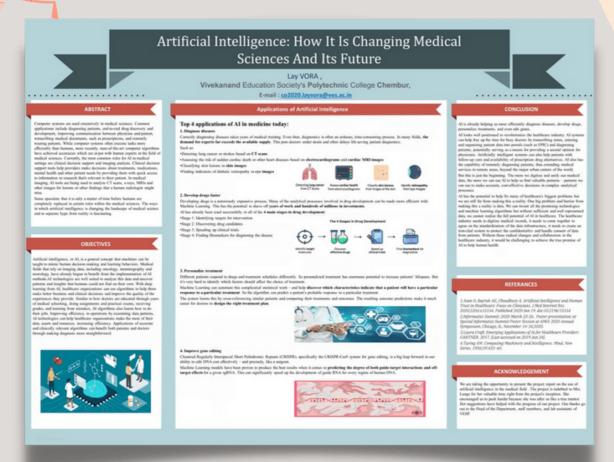
2. WHY ENGINEERING CHOSE ME?

By Aditya Madhwani (CO1I-B)

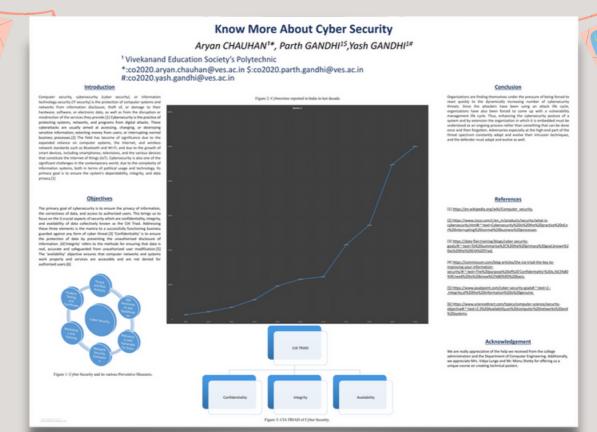


I completed my 10th grade and scored a pretty good percentage now it was time for me to choose my career when I explore around I found that I have two routes to begin my expedition for pursuing computer science 1) DIPLOMA 2) SCIENCE after a lot of dissents and hearing both sides I decided to choose science, yeah you read it right SCIENCE but sometimes life doesn't go according to our plan well my father's friend told me about diploma well at the beginning I don't buy his opinion but when I talked to my Jiju who is now residing in USA he did diploma and really encourage me to take it as my path for success, again back to discussions and finally I made my mind for diploma, My mom and dad are very supportive they leave it on me, though they were concern about my future after I declared my final decision my dad asked my several times "Are you happy with your decision?" I always replied with a broad smile "Absolutely" due to my rigid decision they were satisfied and this is how I chose my diploma, so Ahoy sailors here I am on an expedition with you and hope these three years will be worth living.

TECHNICAL POSTERS

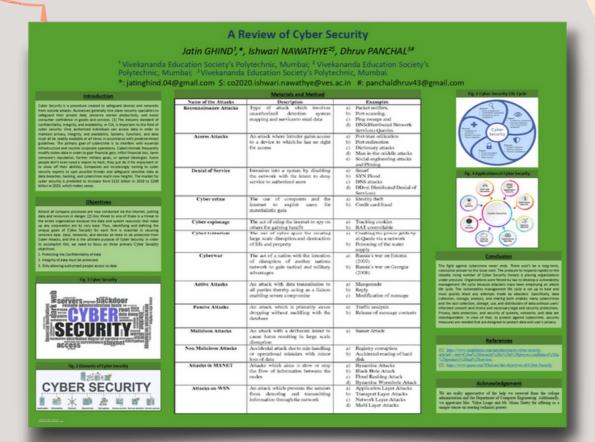


Lay Vora(CO5I-B)



Aryan Chauhan, Parth Gandhi, Yash Gandhi (CO5I-A)

TECHNICAL POSTERS



Jatin Ghind, Ishwari Nawathye, Dhrw Panchal (CO5I-A)

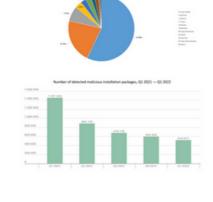
Mobile Security Problems and Defensive Methods Krishna RAMRAKHYANI¹®, Gandhar BAGDE™, Yash PUNWANI¹&

1 Vivekanand Educational Society's Polytechnic, Mumbai

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Wi-Fi	Mobile	Blocton
SM etc.		
		→ NFC
ner I - Different Comm	unication Technol	nin —





Krishna Ramrakhyani, Gandhar Bagade, Yash Punwani (CO5I-B)

Academic Rankers

Computer Engineering | A Division

SECOND SEMESTER - CO2I

RANK	NAME	PERCENTAGE
1	KAZI MOHAMMED ZAID NADEEM YASIN	93.67
2	HEENA KAUSAR SHABBIR HASAN	93
3	ARYAN VIJAY AHUJA	92.2

FOURTH SEMESTER - CO4I

RANK	NAME	PERCENTAGE
1	AGARWAL KUSH AJAYKUMAR	93.1
2	VRUSHTEE RAJESH JASANI	91.7
3	MANNA AMIT SAMIR	91.4

SIXTH SEMESTER - CO6I

RANK	NAME	PERCENTAGE
1	MEHTA DEVANSH PRASHANT	94.74
2	SHRUTI JATIN KATARIA	94.17
2	DIXIT SOHAM DILIP	94.17
3	HEGDE VRAJESH BALACHANDRA	93.66



Academic Rankers

Computer Engineering | B Division

SECOND SEMESTER - CO2I

RANK	NAME	PERCENTAGE
1	PRABHU OM GURUNATH	92
2	GURNANI KANCHAN DARSHAN	89.875
2	HARJANI TANISHA SHANKERLAL	87.5
3	BALIP AAYUSH SUBHASH	87.5

FOURTH SEMESTER - CO4I

RANK	NAME	PERCENTAGE
1	NATHWANI CHAHAT MULCHAND	90.27
2	SHETHIA VEDANSHI DEVANG	88.8
3	SMIT JAYESH RAMBHIA	88.4

SIXTH SEMESTER - CO6I

RANK	NAME	PERCENTAGE
1	LUND VINESH DEEPAK	95.76
2	MODY RACHIT MITESH	95.18
3	CHUGEJA PIYUSH KAMLESH	94.59



EDITORIAL TEAM

STUDENT TEAM MEMBERS



EDITORIAL TEAM

STUDENT TEAM MEMBERS





