



Hon. Achyut Sawant Bhonsale

Dear Avishkar Readers,  
Welcome to the latest edition of Avishkar. At Yashwantrao Bhonsale Institute of Technology, our Computer Engineering Diploma program is dedicated for providing students with industry-relevant skills and hands-on experience. This newsletter showcases the achievements of our talented students and faculty, reflecting our commitment to excellence and innovation. We aim to equip our graduates with the knowledge and tools to lead in the ever-evolving tech industry.

All the Best! ★★ ★

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## OUR VISION

To Produce  
Ethical and Knowledgeable  
Diploma Holders in  
Computer Engineering

### German Delegation Applauds Computer Department Innovative Projects

YBIT's Computer Engineering Diploma Wing welcomed a respected German delegation, who praised the students' creative projects. Department Head Mr. P.D. Kate introduced the projects, appreciating the hard work and ideas students brought to real-world problems. Faculty member Ms. T.V. Gawandi provided clear explanations, sharing how students used advanced technology to bring their ideas to life. The delegates described the visit as an "eye-opener," noting the department's strong commitment to quality education. "This visit has been inspiring," shared the delegation leader, emphasizing that the students' work showed both talent and dedication. The recognition has boosted students' confidence, encouraging them to continue innovating and exploring new ideas.



## OUR MISSION

### Mission 01

To provide students with curriculum and industry based teaching learning process.

### Mission 02

To encourage faculty and students to participate in industry academic events.

### Mission 03

To provide social platform that generate ethical and entrepreneurship skill in students.

### VICE-PRINCIPAL'S DESK Mr. G.A. Bhosale



Dear Avishkar Readers,  
I am delighted to share the latest edition of Avishkar, celebrating the accomplishments of our Computer Engineering Department at Yashwantrao Bhonsale Institute of Technology. Our commitment to fostering innovation and excellence remains unwavering as we equip our students with essential skills and knowledge for the tech industry. This newsletter highlights the dedication of our faculty and the remarkable achievements of our students, reflecting the vibrant learning environment we nurture.

As we continue to embrace new technologies and teaching methodologies, I encourage all students to engage actively in the various opportunities available to them. Together, let us strive for greater heights in our pursuit of academic excellence.

All the Best! ★★ ★



**GUEST LECTURES**

October 16, 2024

**INVESTOR AWARENESS**

the Training and Placement Department at Yashwantrao Bhonsale Institute of Technology, in collaboration with SEBI, hosted an Expert Lecture on "Investor Awareness" for Third Year Computer Engineering students (Division A). Speakers Mr. Jambhalikar and Mr. Jadhav covered topics like the importance of investment, money growth, and SEBI's role in investment security. The session was interactive, with students engaging in discussions on investment strategies. Coordinated by Mr. S.M. Mayekar, Mr. R.C. Dhandekar, and HOD Mr. P.D. Kate, the event included an introduction by Ms. S.S. Kolapate and a vote of thanks by Mr. Dhandekar, attended by 60 students.



August 24, 2024

**FUNDAMENTAL RIGHTS AND****GUIDELINES OF INDIAN CITIZENS**

A guest lecture on "Fundamental Rights and Duties" was held at Yashwantrao Bhosale Institute of Technology, featuring Pooja Naik-Jadhav as the expert guide. She highlighted citizens' rights and duties, emphasizing the importance of voting in strengthening democracy. The event was organized by the Diploma Computer and Mechanical Engineering Department.

August 17, 2024

**INSIGHTS FROM ALUMNI**

Mrunal Sawant-Bhonsale, an alumni from the second Computer batch, visited the Computer Department to interact with third-year Computer Engineering students. She shared valuable insights on various topics, including the Capstone Project, the interview process, communication skills, and job opportunities. Drawing from her experience at Wipro, she provided tips and tricks for cracking aptitude tests and emphasized the importance of the Training and Placement Office (TPO) in college.



August 01, 2024

**WOMEN HEALTH AND HYGIENE**

The Department of Computer Engineering organized a successful seminar on Women's Health and Hygiene featuring Dr. Pushpalata Manerikar, Community Health Officer at the Primary Health Centre, Banda, as the resource person. Dr. Manerikar emphasized on hygiene practices and mental health, menstrual hygiene, personal hygiene, and nutrition, and the session concluded with a doubt-clearing session for the attendees.



September 27, 2024

**WEB APPLICATION DEVELOPMENT USING JAVA SWING AND JDBC API**

In our recent session on Java Application Development, our guest speaker highlighted five key points: Java Swing as the essential GUI toolkit, including core components like JFrame and JButton; the importance of event handling through listener interfaces; utilizing the JDBC API for database connectivity; and performing essential CRUD operations for effective data management. This comprehensive overview provided students with valuable insights into both the components and processes involved in developing Java applications.



**WORKSHOP**

**IoT INSIGHTS: BUILDING THE FUTURE**

The Computer Engineering Diploma Wing at YBIT hosted a successful two-day workshop, "IoT Insights: Building the Future," on October 21-22, 2024, focused on the transformative role of IoT in various industries. Led by IoT expert Mr. Aditya Vardam from SPK College, the workshop covered IoT fundamentals, real-world applications, and hands-on sessions to enhance practical skills. Third-year students actively participated, with the event smoothly coordinated by Mr. Suraj Sawant and Mr. Ravi Dhandekar, and anchored by Ms. Sanchita Kolapate. The workshop concluded with discussions on future IoT trends, inspiring students to innovate in the field.



Dear Avishkar Readers, I am pleased to present this edition of Avishkar, showcasing the progress and accomplishments of the Computer Engineering Department at Yashwantrao Bhonsale Institute of Technology. Our commitment to providing a dynamic and engaging learning environment has enabled our students to develop the technical skills and innovative mindset necessary for success in today's fast-paced tech landscape. Through a blend of rigorous coursework and hands-on experience, we strive to prepare our students to meet the challenges of the industry head-on. In this issue, we highlight the achievements of our students and faculty, reflecting our dedication to academic excellence and research. I encourage everyone to explore the articles and updates that celebrate our vibrant community and its contributions to the field of technology. Thank you. ★★★★★

**YBIT STUDENTS TRIUMPH AT KPIT QUIZ COMPETITION**



Mr. Kush Rajendra Parab, a Third Year Computer Engineering student from YBIT, secured 1st place in the Quiz Competition organized by KPIT, Mudal (Gargoti) on October 15, 2024. Along with a cash prize, Kush received a participation certificate in recognition of his outstanding achievement.

Third Year Computer Engineering students Mr. Sujal Dalavi and Mr. Abhijit Sawant from YBIT achieved 3rd place in the Quiz Competition organized by KPIT, Mudal (Gargoti) on October 15, 2024. Both students received participation certificates in recognition of their accomplishment.



**Current final Year student's Got Selected at industries**





# COMPETITION HIGHLIGHTS

## POSTER PRESENTATION



September 5 2024

The TYCO B students organized a poster presentation competition with the theme “A Student's Success, A Teacher's Victory,” celebrating the mutual achievement in education. Students were encouraged to explore diverse ideas that represent the student-teacher relationship and create visual representations of how a teacher's guidance contributes to a student's journey. The posters illustrated various perspectives, from teachers as mentors and motivators to their role in shaping character and academic success.

## EST MODEL EXHIBITION



September 30 2024

The Computer Engineering Diploma Wing organized an Environmental Study Model Exhibition to foster eco-awareness and innovation among students. The event opened with a symbolic tree-planting ceremony by dignitaries, highlighting the importance of environmental care. Students then presented innovative models addressing critical issues, including sustainable energy solutions, waste management, eco-friendly infrastructure, and climate change mitigation strategies.



## October 19 2024 PARENTS TEACHER MEET

The Computer Engineering Department (Diploma Wing) hosted a Parent-Teacher Meeting for Second and Third Year students to discuss academic progress and student achievements. The meeting opened with a tribute to Mr. Ratan Tata, followed by the felicitation of top-performing students. HOD Mr. P.D. Kate shared departmental updates, and TPO Mr. M.R. Desai discussed job prospects and training for Computer Engineers. Vice Principal Mr. G.A. Bhosale provided academic guidance, and parents shared their feedback. The session ended with individual discussions between parents and mentors, with 215 parents attending.



## TEACHER'S DAY



September 5 2024

Yashwantrao Bhonsale Institute of Technology's Computer Engineering department celebrated Teacher's Day hosted by the Computer Engineering Student Association (COMPESA). The event honored educators with a poster presentation competition, insightful expert talks, and student discussions that underscored the profound influence of teachers.

Inaugurated by Vice Principal Mr. G.A. Bhosale, the celebration saw heartfelt contributions from students, who expressed appreciation for their teachers' guidance and shared personal stories of growth. Esteemed speakers, including Mr. Vijay Masurkare, highlighted the dedication of educators in shaping student success. Principal Dr. R.R. Bane joined the celebration, recognizing teachers' hard work and its impact on students' lives. The event concluded with a message of gratitude to all teachers, affirming the belief that a teacher's victory is truly reflected in their students' achievements.

## READING INSPIRATION DAY



October 15 2024

Yashwantrao Bhonsale Institute of Technology recently celebrated "Reading Inspiration Day," an event dedicated to promoting the love of reading among students and faculty. The day was filled with engaging activities aimed at inspiring everyone to make reading a part of their daily lives.

Quiz competition was arranged in which many students actively participated and winners got exciting prizes.

"Reading Inspiration Day" successfully highlighted the importance of reading in building knowledge and character. By the end of the event, many students pledged to read more regularly, making this celebration a memorable and impactful one for the entire campus community.





# INDUSTRIAL VISIT

August 29 2024

## NATIOANAL INFO. CENTRE ORAS

The Computer Engineering Department organized an industrial visit for Third Year diploma students to the National Informatics Center (NIC) in Sindhudurgnagari. Students learned about software used in developing and updating government apps and websites, as well as technologies behind government schemes. They also observed networking devices, the server room, and gained insights into command-line interface operations for server management. The visit, guided by NIC professionals and accompanied by faculty members, provided valuable knowledge in networking and server management, enhancing students' understanding of computer technology applications in the public sector.



August 7 2024

## KONKANSAD LIVE NEWS STUDIO

The Computer Engineering Department organized an industrial visit for Second Year diploma students to Konkansad Live in Sawantwadi. Students learned about software used in media control, editing, and launching, as well as print media applications. They observed networking devices and media room operations, gaining valuable insights into technology used in news production. The visit, guided by Konkansad Live experts and faculty members, provided practical knowledge of media-related computer technology.





# ACADEMIC TOPPER SUMMER 2024

## Third Year Computer



Three students are shown with their respective medals and names. The first student on the left is a girl with a gold medal (1st place), the middle student is a boy with a silver medal (2nd place), and the third student on the right is a girl with a bronze medal (3rd place). Each student's name is written below their portrait. Two large bouquets of red and yellow roses are positioned on either side of the students.

**Staphy Monteiro**      **Suyash Kerkar**      **Sonal gawade**

## Second Year Computer



Six students are shown with their respective medals and names, divided into two groups. The first group on the left has three students: a girl with a gold medal (1st place), a boy with a silver medal (2nd place), and a girl with a bronze medal (3rd place). The second group on the right also has three students: a girl with a gold medal (1st place), a boy with a silver medal (2nd place), and a girl with a bronze medal (3rd place). Each student's name is written below their portrait.

**Suman Manjrekar**    **Vaibhavi Gosavi**    **Khushi Kerkar**      **Leena Chavan**      **Arya Pawar**      **Pooja Sarmalkar**

### Division A

### Division B

## First Year Computer



Six students are shown with their respective medals and names, divided into two groups. The first group on the left has three students: a girl with a gold medal (1st place), a boy with a silver medal (2nd place), and a boy with a bronze medal (3rd place). The second group on the right also has three students: a girl with a gold medal (1st place), a boy with a silver medal (2nd place), and a boy with a bronze medal (3rd place). Each student's name is written below their portrait.

**Vidhi Kotnis**      **Nishant Jadhav**    **Darshan Dhargalkar**      **Nandini Singh**      **Tanmay Phadke**      **Pratik Pednekar**

### Division A

### Division B





## STUDENTS CORNER



### My Reflections on Artificial Intelligence and Machine Learning

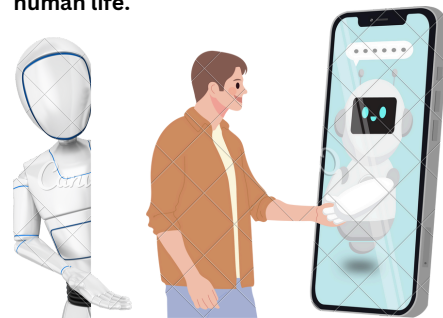
by Pratham Prakash Buran T.Y.CO

AI and ML are just tools - an extension of human ingenuity and innovation. As I sit here, surrounded by the hustle and bustle of the digital age, I am compelled to think about the rapidly evolving world of Artificial Intelligence (AI) and Machine Learning (ML)

.These technologies have not only transformed the way we live, work, and interact with one another, but have also sparked a plethora of questions and concerns that I believe warrant deeper reflection. However, as we continue to push the boundaries of what is possible with these

I worry about the potential consequences of creating machines that are increasingly autonomous and self-aware. The ethics of AI and ML are complex and multifaceted, and I believe that it is our responsibility to ensure that these technologies are developed and used responsibly. My reflection on AI and ML have left me with more questions than answers. As we navigate the complexities of these technologies, I believe that it is essential to prioritize human-centered values and principles - creativity, empathy, and accountability.

believe that the future of AI and ML depends on our ability to work together - researchers, policymakers, industry leaders, and the wider public - to ensure that these technologies are developed and used in ways that augment and empower human life.



### Study on Cyber Security

by Shivani Rajaram Rawool T.Y.CO

As I navigate the vast expanse of the digital world, I am constantly reminded of the importance of cyber security. The rapid evolution of technology has made it easier for us to communicate, access information, and conduct business online, but it has also created

new vulnerabilities that can be exploited by malicious actors. In this report, I will share my thoughts on the current state of cyber security, its importance, and some potential solutions to mitigate the growing threat of cyber attacks. Add a little bit of. The threat landscape of cyber security is vast and ever-evolving.

From phishing attacks and ransomware to SQL injection and zero-day exploits, the methods used by cyber attackers to infiltrate our systems are becoming increasingly sophisticated. As we become more reliant on technology, the potential impact of a cyber attack also increases, making it essential to prioritize cyber security. While technology is often the focus of cyber security efforts, I believe that human factors are equally important. Cyber attackers often exploit human vulnerabilities, such as weak passwords, phishing scams, and social

engineering tactics, to gain access to sensitive information. body text By educating ourselves on cyber security best practices, such as strong password hygiene, safe browsing habits, and regular software updates, we can reduce the risk of a cyber attack. Cyber security is a critical aspect of our digital lives that requires attention and effort from individuals, organizations, and governments. As we continue to rely on technology to navigate our daily lives, it is essential that we take proactive measures to safeguard our digital assets and prevent cyber attacks



## STUDENTS CORNER



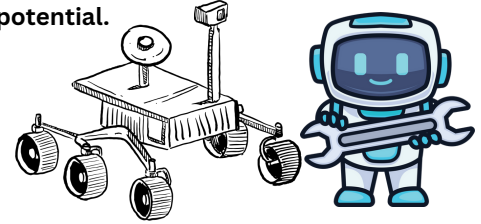
### My Thoughts on Robotics *by Nisha Gokuldas Popkar T.Y.CO*

Robotics is not just a technological advancement; it represents a profound shift in the way we interact with the world around us. As I think about the evolution of this field, I am amazed by how robots have become an integral part of modern life. From manufacturing plants where they tirelessly assemble products, to

hospitals where robotic arms perform delicate surgeries, their impact is undeniable. The benefits of robotics are evident, especially in terms of increased productivity and precision. Robots can handle repetitive tasks with consistent accuracy, making them invaluable in industries that demand high levels of efficiency.

They also enhance safety by taking on roles in hazardous environments, whether it's handling toxic substances or venturing into unexplored terrains like space or the ocean. Yet, my thoughts also turn to the challenges that accompany this progress. The initial cost of deploying robotic systems can be a barrier, particularly for small businesses that might struggle with the investment. Moreover, the rise of automation has sparked concerns about job displacement, as robots take over tasks previously performed by humans. This shift could potentially widen economic disparities, as workers in affected industries face uncertainties.

Additionally, our growing reliance on robotics introduces risks—technical malfunctions or cyber threats could disrupt operations, highlighting a need for robust security measures. As I ponder the future of robotics, I am filled with both optimism and caution. While the advantages are clear, I believe it is crucial to address the ethical and social implications of a robot-driven world. The key lies in finding a balance where robotics enhances human life without overshadowing it, ensuring that this technology serves as a tool for progress, not a replacement for human potential.



### The Role of Cloud Computing in Modern Engineering *by Sushma Sandip Sawant T.Y.CO*

Cloud computing is changing how we store and use data. Instead of saving files on our personal computers, we can now keep them on the internet, using servers managed by cloud providers. This means we can access our data

from anywhere, as long as we have an internet connection. There are three main types of cloud services. First, Infrastructure as a Service (IaaS) lets users rent virtual servers and storage space. This is useful for businesses that need to quickly scale up their IT resources. Second, Platform as a Service (PaaS) provides a platform for developers to build and run applications without

dealing with the hardware. It streamlines the development process, allowing developers to focus on coding. Finally, Software as a Service (SaaS) delivers software applications over the internet, like Google Drive or Microsoft 365, which you can use directly in your browser. Cloud computing has many benefits. It can save money since users only pay for what they use, reducing the need for expensive hardware. It's also scalable, meaning businesses can easily increase or decrease their resources as needed. Accessibility is another plus; you can reach your data from anywhere, making remote work easier.

Additionally, cloud providers take care of software updates and security, so you always have the latest features and protections. In summary, cloud computing is a major shift in how we handle technology. By understanding its basics, benefits, and challenges, you can make smart choices about using cloud services. As technology advances, cloud computing will become even more important in our lives, enabling innovation and efficiency across various industries.





## FROM THE STUDENT MEMBER



As I reflect on my journey as a student member of the Editorial Committee for Avishkar, our computer engineering department newsletter, I am filled with gratitude and excitement. I would like to extend my heartfelt thanks to our Honorable Faculty Member, Mr.T.C.Mhapankar, Honorable HOD, Mr.P.D.Kate, and Vice Principal, Mr.G.A.Bhosale, for providing me with this incredible opportunity.

Being part of the Editorial Committee has been a transformative experience, allowing me to develop my writing, editing, and teamwork skills. I've had the privilege of working closely with esteemed faculty members and talented students, learning from their expertise and perspectives.

Through Avishkar, I've discovered the vibrant academic and extracurricular life of our college. From student achievements to faculty spotlights, every story has inspired me to strive for excellence.

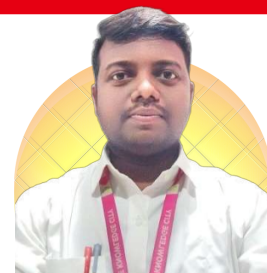
I look forward to continuing this journey, inspiring and motivating fellow students through the pages of Avishkar.

Thank you,

Ms.Shirin Anwar Shaikh

Student Member, Editorial Committee

## FROM THE FACULTY MEMBER



As we proudly present this semester's edition of Avishkar, our computer engineering department newsletter, I would like to extend my heartfelt gratitude to our Honorable HOD, Mr.P.D.Kate, and Vice Principal, Mr.G.A.Bhosale, for entrusting me with the

opportunity to serve on the Editorial Committee. Your guidance and support have been invaluable. This newsletter showcases the vibrant academic and extracurricular life of our college. It is a testament to the talent, dedication, and perseverance of our students, faculty, and staff.

I would like to take this opportunity to acknowledge the tireless efforts of Ms. Shirin Shaikh, whose contributions have been instrumental in shaping this volume of Avishkar. Her commitment to excellence and attention to detail have ensured that our newsletter remains a platform for showcasing the best of our college.

students, I urge you to continue exploring, innovating, and pushing boundaries. Your stories, achievements, and experiences are the lifeblood of Avishkar.

Thank you,

Mr.Tejas Chandrakant Mhapankar

Faculty Member, Editorial Committee



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**VICE PRESIDENT**



**GENERAL SECRETARY**

# New Compesa Council Formed

Computer Engineering Student Association

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