Lokmanya Tilak Jankalyan Shikshan Sanstha's

Priyadarshini Bhagwati College of Engineering, Nagpur

An Autonomous Institution Affiliated to R.T.M. Nagpur University, Nagpur

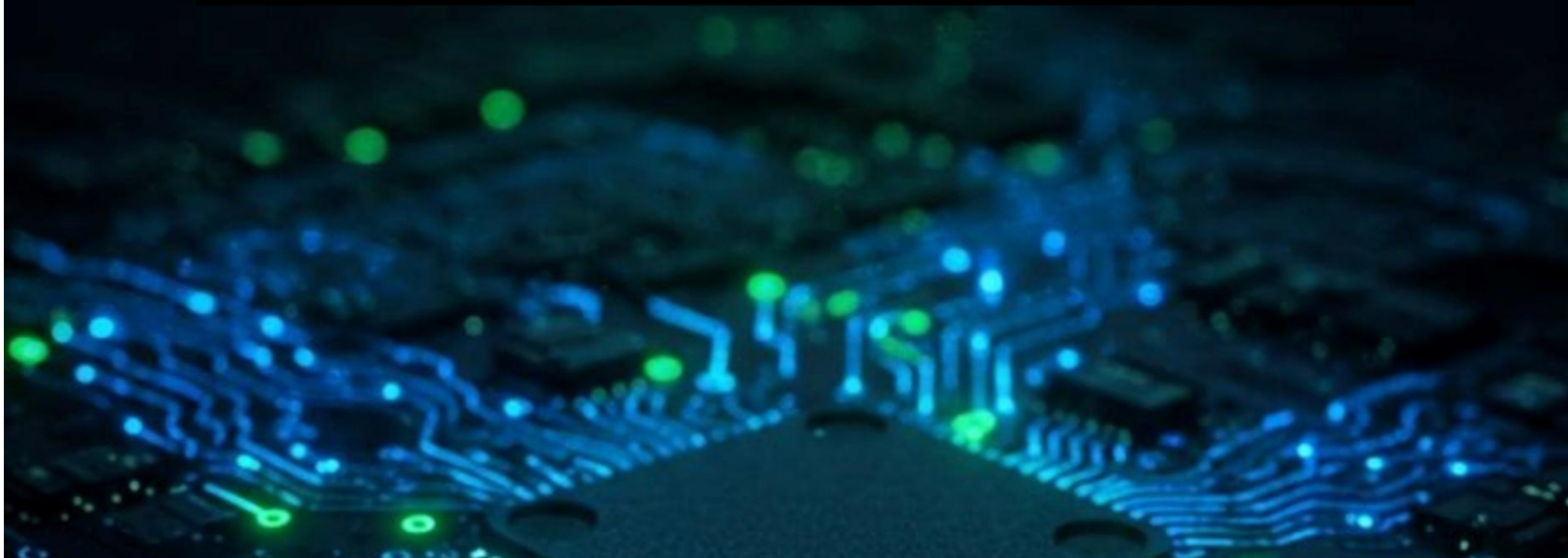
ACCREDITED BY NAAC GRADE 'A'

Harpur Nagar, Umred Road, Nagpur- 440024

ElectroSphere

(2024-2025)

Electronics & Communication Engineering Department



CONTENTS

ABOUT COLLEGE

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, AN AUTONOMOUS INSTITUTE, WAS ESTABLISHED IN THE ACADEMIC YEAR 2007 AND IS ONE AMONG THE FAST-GROWING TECHNICAL INSTITUTES IN THE REGION WITH A VIEW TO IMPART HIGH-QUALITY TECHNICAL EDUCATION TO THE ASPIRANTS OF TECHNICAL EDUCATION IN THE FIELD OF ENGINEERING. THE COLLEGE IS SITUATED IN THE HEART OF NAGPUR CITY AT HARPUR NAGAR ON THE MAIN UMRED ROAD, AT A DISTANCE OF ONLY 5 - 6 KMS FROM RAILWAY STATION AND 2.5 KMS FROM BUS STAND. IT IS WELL CONNECTED BY RAIL, ROAD AND AIR ROUTES. THE COLLEGE IS IN DEVELOPING STAGE, WELL EQUIPPED WITH ALL KIND OF NECESSARY INFRASTRUCTURE AND QUALIFIED AND DEDICATED FACULTIES. IT IS SET UP ON 06 ACRES LAND SITUATED WELL WITHIN THE CITY AREA AT NAGPUR - THE ORANGE CITY.

VISION & MISSION OF THE INSTITUTE

VISION

To be a leading institution ensuring Academic Excellence, Nurturing Research, Innovation and Entrepreneurial Attitude to produce employable technocrats for service to society.

MISSON

1. To be a student centric institute imbibing experiential, innovative and lifelong learning skills, addressing societal problems.
2. To create a conductive ecosystem for Research, innovation & extension services.
3. To inculcate entrepreneurial attitude and values amongst Learners.
4. To collaborate with Industries and other institutions to strengthen symbiotic relations.
5. To inculcate high ethical and moral values among the students.

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

DEPARTMENT of ELECTRONICS & COMMUNICATION ENGINEERING

VISION of THE DEPARTMENT

To cultivate global engineers who excel in technology and innovation, driven by high-quality education, research, student empowerment, ethical leadership, and entrepreneurship to positively impact the society.

MISSION of THE DEPARTMENT:

M1: To educate for innovation and societal impact.

M2: To Provide an industry-relevant, technology-driven learning environment.

M3: To foster entrepreneurial skills for value-based technological solutions.

M4: To collaborate with industry and academia to ensure curriculum relevance.

PROGRAM EDUCATIONAL OBJECTIVES OF THE DEPARTMENT :

PEO1: Graduates will utilize their knowledge and skills to build successful careers, contributing to industry innovation and demonstrating leadership.

PEO2: Graduates will develop strong analytical and problem- solving skills to tackle real-world engineering challenges, using modern techniques to address societal needs.

PEO3: Graduates will uphold ethical standards in their professional conduct, considering societal and environmental impacts, and commit to continuous learning throughout their careers.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO-1: The graduate will be able to analyze and develop solutions for real- time problems, applying knowledge in Electronics and communication, signal processing, embedded systems, devices, circuits, and emerging technologies, using mathematical and engineering fundamentals to meet industry requirements.Pursue higher studies or get placed in Industries and have a successful career and to sustain passion and zeal as an entrepreneur.

PSO-2: The graduate will be able to Apply hardware/software skills and E&C knowledge for system design, analysis considering societal & environmental aspects, leading to employment or entrepreneurship.

PROGRAM OUTCOMES OF THE DEPARTMENT:

1. Engineering Knowledge: Students will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem Analysis: Students will be able to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
3. Design/Development of Solution: Students will be able to design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Investigation: Students will be able to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern Tool Usage: Students will be able to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. Engineer and Society: Students will be able to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practices.
7. Environment and Sustainability: Students will be able to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
8. Ethics: Students will be able apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and Team Work: Students will be able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary setting.
10. Communication: Students will be able to communicate effectively on complex activities.
11. Project Management & Finance : Students will be able to understand and apply engineering and management principles to manage projects in multidisciplinary environments.
12. Life-long Learning: Students will be able to engage in independent and lifelong learning in broadest context of technological change.

Dr. N.K. Choudhari, Principal, P.B.C.O.E, Nagpur

I am truly delighted to connect with you through this year's edition of Departmental Magazine, "ASCONIC," for the academic year 2024-2025. The task of publishing a magazine today is certainly a formidable one. Department has evolved over the years without losing its vibrancy, continuing to create an environment that allows each of you to thrive and blossom, spreading your unique fragrance wherever you go. Remember, "THERE ARE NO SHORTCUTS TO HARD WORK AND NO REWARDS WITHOUT SACRIFICE." Believe in your potential. The keys to success are a positive mindset, unwavering perseverance, passionate commitment, and self-confidence. As you explore the pages ahead, you will discover significant milestones our department has achieved this year. Moreover, our talented students have shared their thoughts, ideas, aspirations, and convictions in imaginative ways. I extend my heartfelt congratulations to Dr. Amita Thakare the editorial board, for unlocking the creativity and potential of our students.

Dr. D.M. Kate, HOD, ECE

It is both a pleasure and an honor to welcome you to the Department of Electronics and Communication at Priyadarshini Bhagwati College of Engineering, Nagpur. Our dedicated members and non-teaching staff, along with our well-equipped laboratories and create a dynamic learning environment.

Since its inception, our department has consistently evolved, organizing a variety of co-curricular and extracurricular activities such as poster-making competitions, seminars on recent technology, and events focused on opportunities after graduation. We also host various technical and non-technical events, including quizzes, all aimed at fostering the overall development of our students through the EC Student Forum.

We are committed to providing our students with an outcome-based education that emphasizes a practical teaching and learning process. This approach fosters critical thinking and problem-solving skills as students progress through their programs. Beyond classroom instruction, students are encouraged to apply the principles they learn through hands-on experimentation in our labs, enhancing their self-confidence and engineering skills.

Teachers play a vital role in nurturing the talents and abilities of students by serving as facilitators in their learning journey. This magazine aims to highlight the strengths of our department and provide a platform for both faculty and students to showcase their literary talents and innovative ideas.

I extend my best wishes for the success of this initiative.

Dr. P.N. Yerkewar, Forum Incharge, ASCONIC

Everyone has dreams, and so do we. One of our longstanding dreams has been the creation of "ASCONIC" I am delighted to present this edition of our departmental magazine. More than just a collection of articles, this magazine serves as a vibrant tapestry of emotions and creativity, capturing the events organized by both our faculty and students. The combined efforts of the magazine committee have made this edition a resounding success.

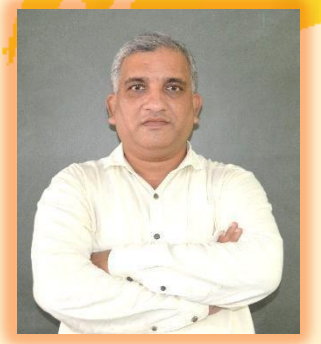
I would like to express my sincere gratitude to our management, our principal Dr. N.K.Choudhari, for their unwavering support and guidance.

Additionally, I want to extend my heartfelt thanks to Dr.(Ms.) D.M.Kate, the HOD of EC, for his constant encouragement. I also appreciate the hard work of our student editors, Chaitanya Akhud and Pratham Pannase, who have dedicated themselves to shaping this magazine into its current form

SUPPORTING PILLARS OF DEPARTMENT

Dr. D.M. Kate, HOD, ECE

Dr. S.B. Dhoble



Dr. P.R. Bokde

Dr. P.M. Palkar

Dr. P.N. Yerkewar

Mr. A.D. Landge

Dr. A.P. Thakre

Dr. T.U. Pathan

Ms. M.S. Dhanvijay

EDITORS

Mr. Pratham Pannase

Mr. Chaitanya Akhud

Message from ASCONIC Student Incharge :

All choices you ever made into your Life have brought you to where you are today" Use your time pursuing your dreams and never give up because the struggle you go through today will build the strength for tomorrow. Cosmic-Tech is an attempt to explore diverse skills and activities of the department.

I thank my mentors for my guidance and inspiration.

Imagine, Believe and Achieve

Mr. Pratham Pannase

Student Incharge

(ASCONIC)

ASCONIC CORE COMMITTEE

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Mr. Ayush Waghulkar

Ms. Akansha Chikte

Ms. Yamini Kantode

Ms. Bhavna Hatwar

EVENT TITLE:-

“POSTER COMPETITION”

Date of Event :- 03/09/2024

No. of Students Involved :- 30

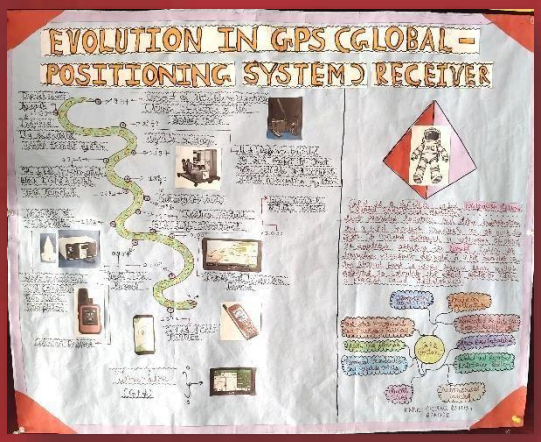
Event Location :- Electronics Department

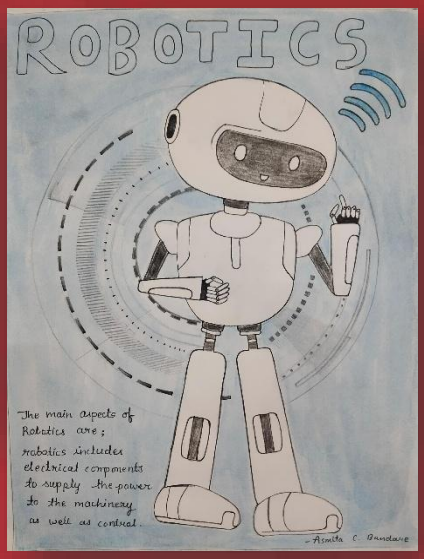
Resource Person(s) :- Dr. N.K. Chaoudhari Principal PBCOE, Dr. D.M. Kate (HOD of ECE) All Faculties of Department

Purpose :

The poster competition is designed to promote creativity, critical thinking, and awareness among students by offering a platform to express their ideas visually on significant themes. It promotes innovation, communication skills, and healthy competition while improving students' interest in academic and social issues.

WALL MAGZINE





EVENT TITLE:-

"INSTALLATION CEREMONY OF ASCONIC STUDENT FORUM "

Date of Event :- 31/08/2024

No. of Students Involved :- 180

Event Location :- Electronics Department

Guest of Honors :- Dr. N.K. Choudhari Principal, PBCOE, Nagpur. Dr. D.M. Kate (HOD of ECE) All Faculties of Department

Event Coordinator :- P.N. Yerkewar (ASCONIC Forum Incharge)

Purpose :

ASCONIC Students' Forum is an institution designed to develop co-curricular and extra-curricular talent among students to serve society ethically and develop effective professional careers. To this end, the Department inaugurated the Forum on 31/08/2024. At the installation ceremony, the logo was formally unveiled by the dignitaries, and the forum was declared open to ECE students. Pre-selected office bearers were awarded badges and certificates for their positions. The board members and the guests of honor attended the occasion with their motivational words, motivating the students to strive for excellence. Likewise, the Tele-Era Students' Forum does the same for ECE students, honing their skills and professionalism. Both forums strive to nurture students' talents apart from academics, rendering them responsible and ethical professionals for the future.

ASCONIC STUDENT FORUM INSTALLATION

Remark :

By conducting the event as cultural program the students are always learning new things that are connected to the current trend prevailing in the cultural era. The students of ECE dept, who participated in the various events respectively followed the same and showcased it with complete spirit and enthusiasm. In the cultural activity organized the students performed so well and learned from the appreciation of the audience that they can also attend the professional events. This was actually the result emerged out of the event which is the real motive behind organizing this event.

EVENT TITLE:-

“E-SPORTS (INTER-COLLEGIATE)”

Date of Event :- 18/09/2024

EVENT TITLE:-

"CULTURAL DAY OF ASCONIC STUDENT FORUM"

Date of Event :- 12/01/2025


SINGING


RAMP WALK

GROUP DANCE

EVENT TITLE:-

“DEPARTMENTAL SPORTS”

Date of Event :- 16/01/2025

EVENT TITLE:-

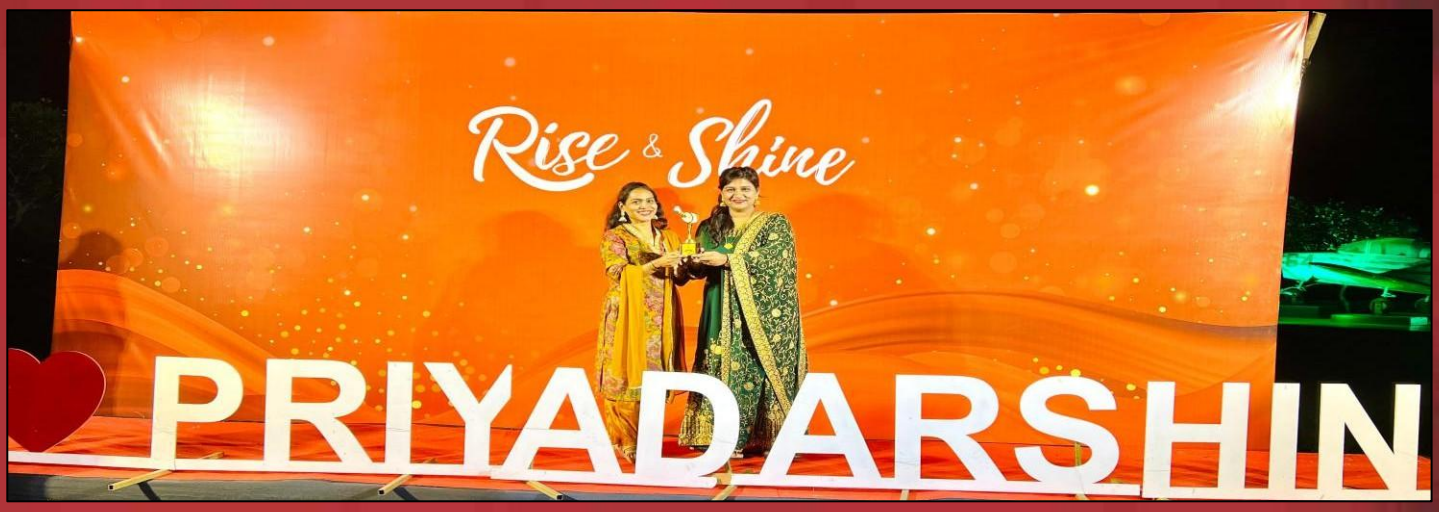
“PROJECT COMPETITION”

Date of Event :- 22/01/2025

PROJECT COMPETITON

FACULTY EMPOWERMENT

Felicitation of Dr.T.U.Pathan and Ms.S.S.Dhanvijay



Award winner for Table Tennis

ARTICLE

Artificial Intelligence (AI) in Communication

Artificial Intelligence (AI) has become a transformative force in the field of communication, enabling networks and systems to become smarter, more efficient, and more secure.

By leveraging advanced algorithms, machine learning, and natural language processing, AI enhances how information is transmitted, received, and processed across various platforms. One of the most significant applications of AI is in network optimization. AI algorithms analyze traffic patterns and predict demand, allowing networks to manage data flow efficiently and reduce congestion. This results in faster, more reliable connections for users.

Another critical area is security. AI-powered systems can detect and prevent cyber threats by identifying unusual activity and anomalies in real-time, safeguarding data integrity and privacy.AI also plays a vital role in signal processing improving the clarity and quality of transmitted data by filtering noise and enhancing signal strength. Additionally, AI-driven virtual assistants and chatbots are revolutionizing customer service by providing instant, accurate responses, reducing wait times,and improving user experience.

Core AI technologies such as machine learning, deep learning, and natural language processing (NLP) enable systems to learn from data, understand human language, and adapt to new situations. These advancements lead to more intuitive and responsive communication systems. Impact and Future Outlook AI's integration into communication networks leads to self-healingand predictive maintenance capabilities, minimizing downtime and operational costs. Future developments point toward fully autonomous networks capable of dynamic adaptation to changing conditions, ensuring seamless and secure communication globally.

AI is revolutionizing communication by making networks more intelligent, secure, and user-friendly. Its continued evolution promises to unlock new possibilities, making digital communication faster, safer, and more efficient, thereby shaping the future of global connectivity.

Dr.Amita P.Thakare
Assistant Professor

Smart Antennas

Smart antennas, also known as adaptive antennas, are advanced antenna systems that dynamically modify their radiation patterns to improve communication quality. They are widely used in modern wireless networks to enhance signal strength, reduce interference,and increase capacity.

Smart antennas use multiple antenna elementscombined with signal processing algorithms to electronically steerthe beam towards desired users or signals. This process, calledbeamforming, allows the antenna system to focus energy in specificdirections, optimizing the connection and minimizing interferencefrom other sources.Switch between predefined directions to target users. Adaptive Array Antennas:Continuously adjust the beam pattern basedon real-timesignal measurements for optimal performance. Enhanced Signal Quality:Focused beams improve received signal strength and clarity.

Increased Capacity: Multiple users can be served simultaneously with minimal interference. Reduced Interference: Targeted beams prevent signals from interfering with other devices. Directional transmission extends the reach of wireless signals. A Smart antennas are used in cellular networks (such as 4G and 5G), Wi-Fi systems, satellite communications, and radar systems. They are essential for improving network efficiency and supporting high data rates in crowded environments. Smart antennas represent a significant advancement in wireless communication technology. By intelligently directing signals, they enable faster, more reliable connections, and pave the way for the future of high-capacity, interference-resistant wireless networks.

Dr.T.U.Patan
Assistant Professor

Artificial Intelligence: Boon or Threat to Humanity?

Artificial Intelligence (AI) is one of the most advanced technological developments of the 21st century. It refers to machines and systems that can perform tasks requiring human intelligence, such as learning, problem-solving, and decision-making. AI is widely used in healthcare, education, finance, and transportation. For example, AI helps doctors diagnose diseases more accurately and enables self-driving vehicles.

AI offers several advantages. It increases efficiency, reduces human error, and saves time by automating repetitive tasks. In industries, AI improves productivity and helps businesses grow faster. However, despite these benefits, AI also presents certain risks. One major concern is job loss, as machines can replace human workers in many sectors. Additionally, ethical issues such as data privacy, bias in algorithms, and lack of human control raise serious questions.

Another concern is the overdependence on technology, which may reduce human creativity and critical thinking skills. There is also fear that AI could be misused for harmful purposes if not properly regulated.

In conclusion, AI is both a boon and a potential threat. Its impact depends on how humans choose to use it. With proper regulations, ethical guidelines, and responsible use, AI can greatly benefit society while minimizing its risks.

Mr A.D Landge
Assitant Professor

Impact of Social Media on Youth

Social media has become an essential part of modern life, especially for young people. Platforms like Instagram, Facebook, and YouTube allow users to communicate, share ideas, and stay updated with current trends. It has also created new opportunities for creativity, learning, and even careers through content creation.

One of the major advantages of social media is connectivity. It helps students stay connected with friends, family, and global communities. It also provides access to educational content, news, and awareness about social issues. Many young individuals use social media to showcase their talents and build careers.

However, excessive use of social media can have negative effects. Addiction to social platforms can lead to poor academic performance and reduced productivity. It can also affect mental health, causing stress, anxiety, and low self-esteem due to constant comparison with others. Cyberbullying is another serious issue faced by many young users.

In conclusion, social media is a powerful tool that can influence youth positively and negatively. It is important for young people to use it wisely, maintain balance, and focus on real-life relationships and personal growth.

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Dr S.B Dhoble
Assistantn Professor

Online Education vs Traditional Education

Climate change is one of the most pressing global challenges today. It refers to long-term changes in temperature and weather patterns, mainly caused by human activities such as deforestation, pollution, and excessive use of fossil fuels. These activities increase greenhouse gases, leading to global warming.

The effects of climate change are already visible. Rising temperatures, melting glaciers, rising sea levels, and unpredictable weather patterns are becoming common. Natural disasters like floods, droughts, and cyclones are increasing in frequency and intensity. Climate change also affects agriculture, leading to food shortages and economic instability.

Furthermore, it has a serious impact on biodiversity, causing the extinction of many plant and animal species. Human health is also at risk due to increased pollution and the spread of diseases.

To address climate change, immediate action is required. Governments, industries, and individuals must work together to reduce carbon emissions, promote renewable energy sources, and protect natural resources. Simple actions like saving energy, planting trees, and reducing waste can make a difference.

In conclusion, climate change is a global issue that requires urgent attention. Protecting the environment today is essential to ensure a safe and sustainable future for coming generations.

Dr D.M Kate
Associate Professor

Mental Health Awareness Among Students

Mental health is an essential part of overall well-being, yet it is often neglected, especially among students. Academic pressure, competition, family expectations, and personal issues can lead to stress, anxiety, and depression.

Many students hesitate to talk about their mental health due to fear of judgment or lack of awareness. This can worsen the situation and affect their academic performance and personal life. Therefore, it is important to create awareness and encourage open discussions about mental health.

Schools and colleges should provide counseling services and support systems to help students cope with stress. Activities like meditation, sports, and hobbies can also improve mental well-being.

In conclusion, mental health awareness is crucial for students to lead a balanced and healthy life. Supporting mental health not only improves academic performance but also helps in personal growth and happiness.

Asmita Bandare
8th sem EC

Digital India: Transforming the Nation

Digital India is an initiative aimed at transforming India into a digitally empowered society and knowledge-based economy. It focuses on improving digital infrastructure, increasing internet access, and providing government services online.

This initiative has made services like banking, education, and healthcare more accessible to people. Digital payments, online learning platforms, and e-governance have simplified everyday life. It has also created job opportunities in the IT and digital sectors.

However, challenges such as lack of digital literacy, poor internet connectivity in rural areas, and cybersecurity risks still exist. Efforts must be made to bridge the digital divide and ensure equal access to technology.

In conclusion, Digital India is playing a significant role in the country's development. With proper implementation and awareness, it can lead to inclusive growth and modernization.

Asmita Bandare
6th sem EC

Startup Culture and Entrepreneurship in India

India is experiencing rapid growth in startup culture. Many young entrepreneurs are creating innovative solutions and contributing to economic development.

Startups generate employment opportunities and promote creativity and innovation. Government initiatives and digital platforms have supported the growth of startups.

However, challenges such as funding, competition, and market risks remain. Entrepreneurs must be determined and adaptable to succeed.

In conclusion, startup culture is shaping the future of India. It encourages innovation and plays a key role in national growth.

Shruti Khanke
3th sem EC

Cybersecurity and Data Privacy in the Digital Age

With the increasing use of the internet, cybersecurity and data privacy have become major concerns. People share personal information online, making it vulnerable to cyber threats.

Cyber attacks such as hacking, identity theft, and data breaches can cause serious harm. It is important to use strong passwords, secure networks, and stay aware of online risks.

Organizations must also take responsibility to protect user data and ensure privacy. Governments should implement strict laws to prevent cybercrime.

In conclusion, cybersecurity is essential in the digital age. Protecting data ensures safety and builds trust in digital systems.

Manswi Ganorkar
4th sem EC

Women Empowerment in the 21st Century

Women empowerment is crucial for the development of society. In the 21st century, women are achieving success in various fields such as education, business, science, and politics.

Despite progress, many challenges still exist, including gender inequality, discrimination, and lack of opportunities. Education and awareness are key factors in empowering women.

Providing equal rights, opportunities, and support can help women achieve their full potential. Empowered women contribute significantly to the growth and development of the nation.

In conclusion, women empowerment is not just a social issue but a necessity for a progressive society.

Manswi Ganorkar
3th sem EC

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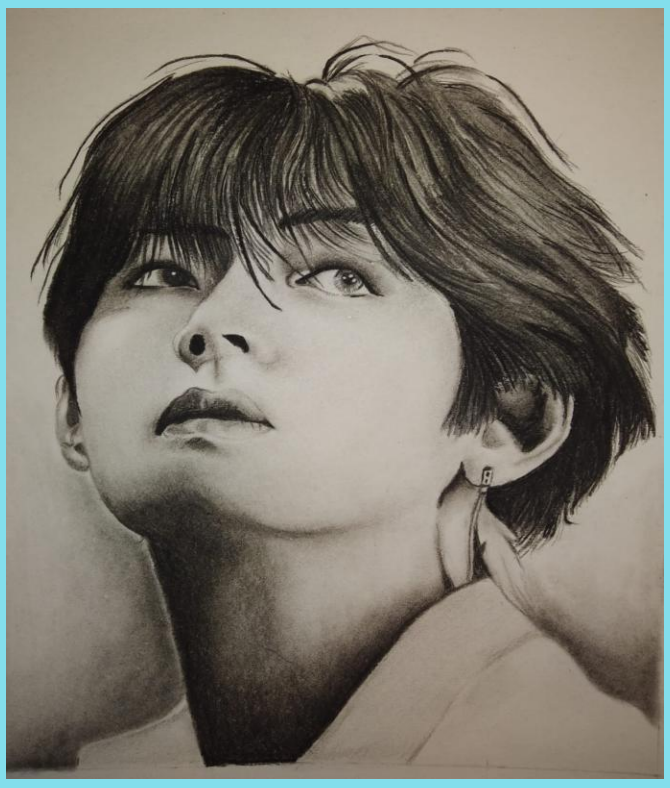

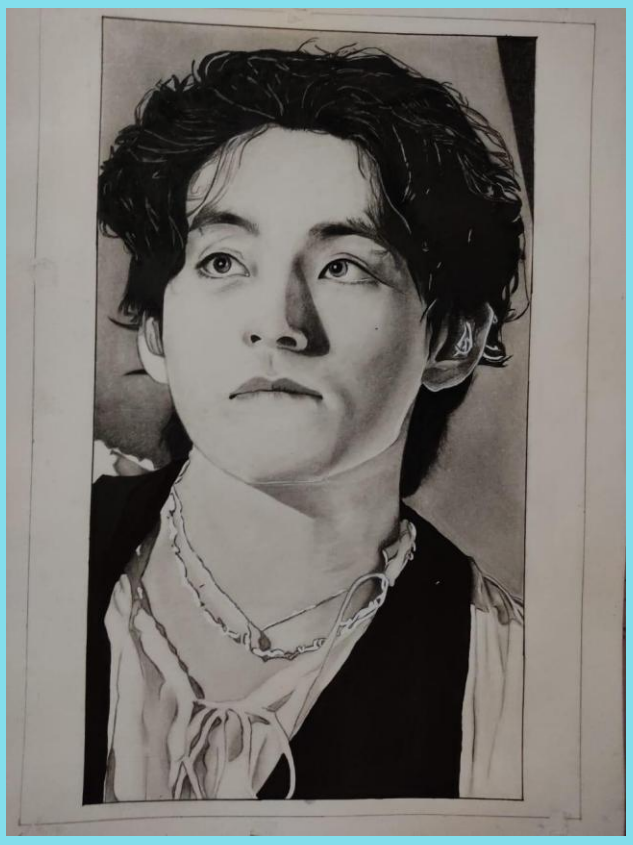

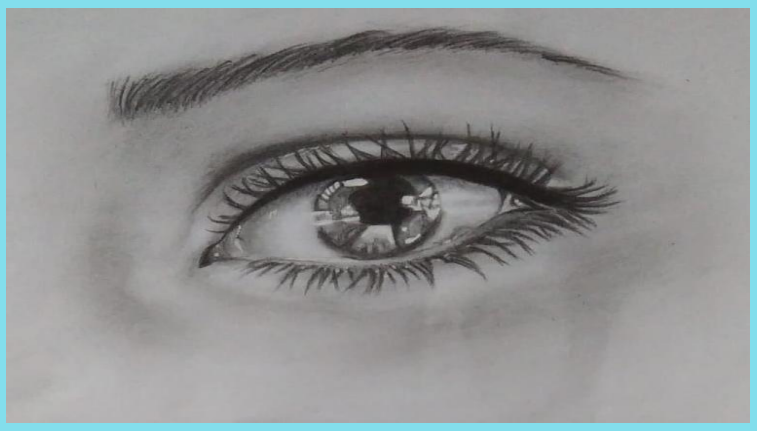

Nandini Bhushanwar
4th EC

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GUEST LECTURES & SEMINARS

Sr. No	Session	Title
1	2023-24	IOT and Cyber Security
2		Entrepreneurship Development in Software Industry
3		VLSI (Very Large Scale Integration)
4		Intellectual Property Rights
5		Report of Workshop on Code of Conduct

EVENT TITLE:-

“SEMINAR ON IOT (INTERNET OF THINGS)”

Date of Event :- 15/01/2024

SEMINAR ON IOT

EVENT TITLE:-

"ENTREPRENEURSHIP DEVELOPMENT IN SOFTWARE INDUSTRY"

Date of Event :- 22/01/2024

ENTREPRENEURSHIP DEVELOPMENT IN SOFTWARE INDUSTRY

EVENT TITLE:-

"SEMINAR ON VLSI

(VERY LARGE SCALE INTEGRATION)"

Date of Event :02/02/2024

SEMINAR ON VLSI

EVENT TITLE:-

“INTELECTUAL PROPERTY RIGHTS”

Date of Event :- 06/02/2024

EVENT TITLE:-

“REPOSRT ON WORKSHOP THE CODE OF CONDUCT”

Date of Event :- 09/02/2024

DEPARTMENTAL ACHIVEMENTS

Representing PBCOE at Various Yoga Championship

Appreciation by Krishi Vigyan Kendra ICAR-CICR, Nagpur

Brain-Burst Project Competition

ELECTROTECH :Component Combat

Inauguration Date :- 11/02/2024

Social Acitivity in collaboration with NSS : Tree plantation and stationary distribution at school , kalamana market.

FAREWELL CEREMONEY

Event Title	: Farewell Ceremony
Event Date	: 22/05/2024
Event conduction duration	: 1 Day
Event venue	: EC Department , PBCOE Nagpur
Sem/Branch	: 8th Semester
Name of Event Coordinator	: Dr. A.P. Thakare, Asst. Prof. EC Department, PBCOE Nagpur
Objective	: To bid a cheerful adieu to the students passing out this year and to make friendship of the juniors & seniors more stronger.
Outcome	: Student have effectively participated and enjoyed farewell ceremony and done good interaction juniors and faculties..

Priyadarshini Bhagwati College Of Engineering, Nagpur

Electronics & Communication
Engineering Department

Harpur Nagar, Umred Road, Nagpur - 440024