



Government College of Engineering, Amravati
Towards Global Technological Excellence



THE

ETAS

CHRONICLE

For the student, By the student

DECEMBER 2023

Excellence Through Education & Dedication

From the Desk of Principal



Dr. A. M. Mahalle

I extend my sincere congratulations to all the faculties and students involved in the creation and release of The Chronicle, the highly anticipated magazine by ETAS. The commendable efforts and dedication demonstrated by both faculties and students are truly praiseworthy. It is a pleasure to be a part of this momentous occasion, celebrating the culmination of creativity and intellect within our academic community. My best wishes go out to the entire Department of Electronics as you embark on future endeavors. The commitment to fostering extra-curricular activities like this magazine is commendable, as it not only enhances the confidence of our students but also plays a pivotal role in their holistic personality development. May this initiative continue to inspire and provide a platform for creative expression within the ETAS community.

Once again, I express my heartfelt congratulations and extend my best wishes to all individuals involved in bringing forth this remarkable initiative. Thank you for your dedication and hard work!

Thank You!

From Head of Department's Desk

The collective efforts behind 'The Chronicle,' our highly anticipated magazine is very commendable. This publication reflects our community's commitment to excellence and showcases diverse talents within ETAS. A general college magazine typically includes academic achievements, research highlights, cultural events, literary contributions, and profiles of outstanding individuals. 'The Chronicle' serves as a dynamic snapshot of our college experience, fostering pride and community. Congratulations to all involved, and I anticipate it will continue to inspire the ETAS community.



Dr. P. R. Deshmukh

From ETAS Faculty Incharge

As the faculty in charge of the magazine, I am immensely proud of the collaborative efforts and creativity displayed by our talented students in bringing 'The Chronicle' to life. This magazine is a reflection of our collective commitment to excellence and a celebration of the intellectual vibrancy that defines ETAS. I extend my heartfelt congratulations to all involved, and I am confident that 'The Chronicle' will continue to inspire and captivate readers, leaving an indelible mark on our journey of academic exploration.



Prof. Radhika Harne

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Shaurya Trophy

The first day of everybody's eagerly anticipated event "Shaurya Trophy" was marked on Thursday, December 14, 2023. It is an annual departmental sports event held under ETAS, comprising various sports and lasted for 3 days. Participation and competition occur among students from all four years, aiming to secure victory and ultimately earn the trophy for their respective year.

Day 1:

The first day began with a lively Flash Mob dance performed by students from the 1st, 2nd, and 3rd years, followed by the formal inauguration of the ETAS board by Dr. P. R. Deshmukh, the esteemed Head of the Department. Dodgeball was the highlighted game of the day, with two teams from each year comprising 12 members each. The teams for the first round were determined through a draw, and after intense competition, the 2nd year emerged victorious, earning 10 points, while the 3rd year secured the runner-up position, earning 5 points.





Day 2:

The second day of the "Shaurya Trophy" was filled with anticipation and fierce competition among students from all four years. The day featured four games: BGMI (an online game), chess, carrom, and lagori. In BGMI, the 4th year emerged victorious, earning 10 points. Chess saw intense competition among the top 16 participants, with the 2nd year ultimately triumphing over the 4th year, adding 7 points to their tally.

Carrom doubles matches were knockout rounds, with the 1st year winning in the girl's category and the 2nd year winning in the boy's category. Lagori matches concluded with the 4th year emerging as champions, adding 10 points, while the 2nd year secured the runner-up position, earning 5 points. The day ended with excitement among all teams, looking forward to the final day of the Shaurya Trophy.



Day 3:

On the third and final day of the "Shaurya Trophy," the atmosphere was charged with courage, enthusiasm, and excitement as it marked the conclusion of the tournament. The day kicked off with Badminton doubles, featuring intense competition among teams from each year. The 4th year emerged victorious in both boys' and girls' categories, securing a total of 15 points each. Box cricket followed, with the 4th year dominating the semifinals and earning another 15 points.

The highlight of the day was the tug of war, where spirited participation from the audience added to the liveliness of the event. After fierce competition, the final year emerged victorious, culminating in a triumphant conclusion to the tournament.

The successful organization and execution of the "Shaurya Trophy" wouldn't have been possible without the invaluable assistance in organization and planning, contributing innovative ideas of our ETAS faculty incharge Ms. R. R Harne ma'am, even participating in lagori alongside Meshram Ma'am who provided valuable contribution. D. V. Rojatkar Sir offered significant support, HOD Sir Dr. P. R. Deshmukh's presence during the inauguration and Paikrao Sir's participation in badminton showcased their dedication. Thakare Ma'am's guidance was instrumental in ensuring smooth operations.



The final year clinched victory in the Shaurya Trophy for the third consecutive time, marking a memorable hat-trick. As the winners expressed their gratitude in the closing moments, emotions of sportsmanship and camaraderie united everyone, transcending the boundaries of years. Despite the event's end, chants of "KHAP ETAS" and "GANPATI BAPPA MOURYA" continue to echo, symbolizing the enduring spirit of unity and celebration within the department.





Home

Home. A place of unlimited emotions, feelings, memories and events. Doesn't matter wherever you are in the world, at the end of the day your heart craves for home. The special odour and limitless comfort that home gives cannot be found at any corner of the world.

The walls that witness our never ending conversations, bear all the pencil marks, drawings, notes, paintings and even the muddy hands at times and what not. Every corner holds a special memory of playing with dad, conversations with mom, fights with siblings, blessings of grandparents.

The wisdom shared by father at the dining table takes its place deep down in everyone's hearts. The caring and compassionate of mom at the bed while we fell ill, and the comforting hands makes everything better. The continuous fights with siblings over tv remote, and the constant game plays and cold wars over everything makes every moment fun to live for. All these occur at home. Home isn't a place of doors, walls and windows but a memory of every scar caused by hitting the wall, that never changing view from the window, and endless emotions for the doors that differentiates every room, but deep down they also know there aren't number of rooms, but everything in a whole.

Everything is messy and everything is perfect in our homes. We only knew what's the place of a particular thing, though we keep it messy all the time. It's a perfect resemblance of our hearts, whether it's messy or aesthetic or just the way we want it to be.

Many places may ask us to feel at home, but our hearts know that the comfort we get from our homes will never be available anywhere. The comfort of our bed, the sweetness of mom's scoldings, the fun fights with siblings, the wisdom behind dad's harsh words, everything makes another beautiful home in our hearts that makes us fall for it everytime we visit it back after a few days of vacation. The constant one that loves us with its whole heart and grows up with us all the time.

Destiny's Diligence

In a story of life.
a battle begins.
Destiny or hardwork?
Let's see who wins.

Destiny's tale written in the sky,
stars twinkle as time passes by.
It says " & guide, I have the plan",
In the universal script of every
gentleman.
Hardwork replied with a shining
beam
If not executed, its just a part of
dream.
The canvas of life, painted with
blood and sweat,
All of those sacrifices. Did you just
forget?

Destiny understood the importance
of diligence.
So decided not to interrupt, proving
its intelligence.
An industrious mind creates its
destiny,
fate & efforts unites, sculpting
a worthwhile journey...

-Shravani Bhuyar
Final year

Wordcraft Corner

Lost in echoes of love

You walk ahead
I'll walk behind
I'll bear the rains,
You face the wind
I keep messing up
But you please Stay kind

I keep crossing the same streets
And grossing over the kisses
All by myself
Ain't even searching for you

The day I asked myself
If I can even love.
Was the day, my brain, said
Better sail with a dove.

-Anushka Gupta
Final year



5G Toolkit Webinar

On February 9th, 2024, the Department of Electronics and Telecommunication, in collaboration with ETAS, orchestrated an enlightening guest lecture titled "5G Toolkit" as part of the Diamond Jubilee 2024 celebrations. The webinar, held on the Microsoft Teams platform, catered specifically to the students of the E&TC department.

Mr. Vikram Singh, Chief of Technology at Gigayasa Wireless, delivered the guest lecture. Ms. Radhika Harne, the faculty in charge, extended a warm welcome to Mr. Singh in the presence of the Head of the Department, Dr. P. R. Deshmukh.

GIGAYASA
GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI
DEPARTMENT OF ELECTRONICS ENGINEERING
ETAS
Presents
Webinar ON
5G TOOLKIT
AN IMPORTANT TOOL FOR RESEARCH AND INNOVATIONS IN 5G AND BEYOND TECHNOLOGIES
DEPARTMENT OF ELECTRONICS ENGINEERING IN ASSOCIATION WITH ETAS IS ORGANIZING A WEBINAR FOR STUDENTS OF E&TC DEPARTMENT UNDER THE DIAMOND JUBILEE 2024 CELEBRATION
Vikram has been the Chief of Technology (CTO) at Gigayasa Wireless since December 2021. He was a Research Engineering at the Centre of Excellence in Wireless Technology (CEWIT), Indian Institute of Technology Madras. He has contributed to 3GPP standards on positioning in release 16 and release 17 of 5G New Radio. He has worked as a System on Chip (SoC) Design Engineer at Intel India after graduating from IIT Kanpur in 2018.
Vikram Singh
CTO, Gigayasa Wireless
ON FRIDAY, 9TH FEBRUARY 2024
4:00 PM - 5:00 PM
FACULTY INCHARGE
R.R. HARNE
H.O.D.
DR. P.R. DESHMUKH

The objective of the lecture was to impart knowledge to students about the 5G Toolkit software, which facilitates algorithm design for 5G and various wireless systems. Mr. Singh detailed the utility of the 5G Toolkit, explaining its applications in personal, academic, and research pursuits, as well as its role in simulations and the analysis of diverse 5G network systems. Academically, it supports the establishment of 5G/6G wireless communication laboratories, research publication on standard-based B5G technologies, student training programs, FDPs, and instruction of 5G technologies through projects and laboratory experiments. In the industrial domain, it facilitates network design and optimization, employs artificial intelligence (AI) to enhance B5G networks,

aids in the development of IP portfolios for radio access networks, and offers various other functionalities. The session concluded with a notable increase in student interest, motivating them to explore further learning opportunities regarding the software.

With closing remarks from Ms. Radhika Harne, whose contributions facilitated the event, the session came to an end. ETAS reaffirms its commitment to organizing similar informative sessions in the future, with the support and collaboration of all faculty members.

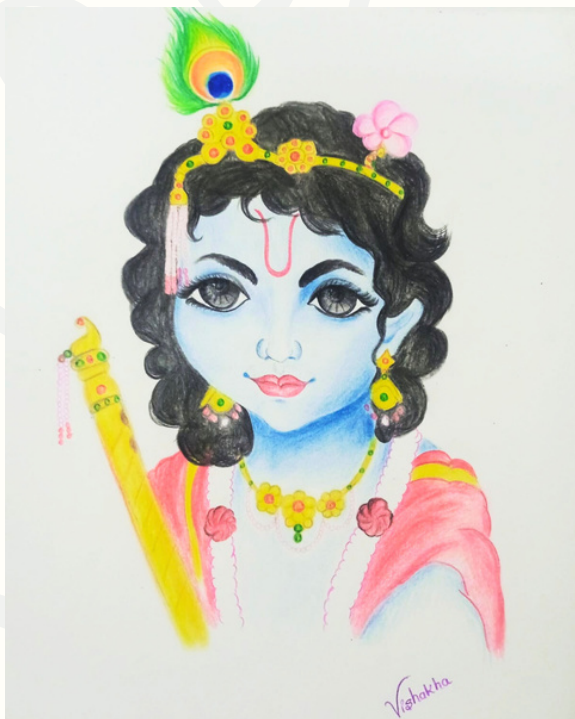
Art Gallery



Vedant Chaware - First year

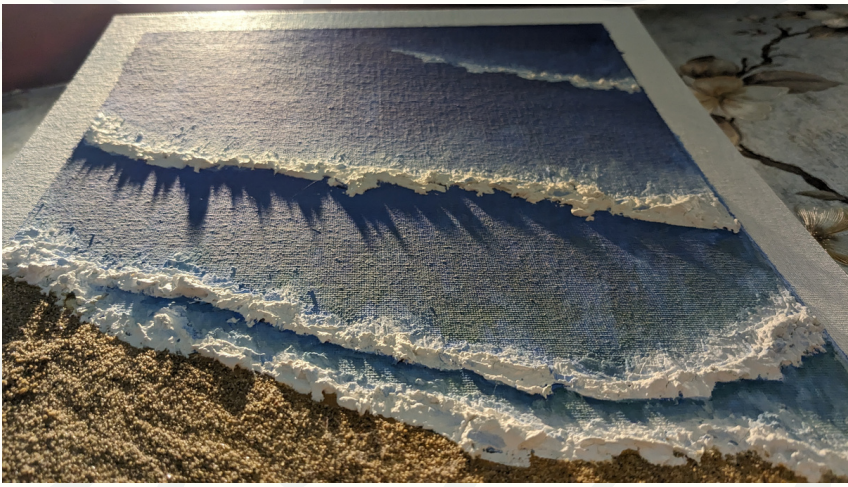


Ayushi Sarate - Final year



Vishakha Meshram - Third year





Samruddhi Pawar - First year



**Akanksha Deshmukh
- Second year**



Sharwari Pawar - First year



Vasanti Bonde - First year



Antenna & Radar Workshop

From December 9th to 11th, 2023, the Electronics and Telecommunication Engineering Department organized a comprehensive three-day workshop on "Antenna and Radar Designing" for final-year students at Government College of Engineering, Amravati.

The workshop, held at the esteemed venue, aimed to provide practical insights into antenna design and radar systems, fostering a deeper understanding of theoretical concepts and hands-on application among the students. Distinguished experts in the field, Mr. Anirudha Kulkarni and Mr. Mukund Bhople, graced the occasion and played a crucial role in imparting their extensive knowledge and expertise to the participating students.

Commencing with a warm welcome extended to the experts by faculty members and students alike, the workshop set the tone with an opening speech by the Head of the Department (HOD). The HOD emphasized the significance of antenna and radar design in contemporary engineering, paving the way for a series of insightful sessions.

Mr. Anirudha Kulkarni conducted a theoretical session, delving into the importance of dB and Signal-to-Noise (S/N) ratio in antenna design. The session covered fundamental theories, introductions, and calculations essential for antenna design. Following the theoretical session, students engaged in hands-on activities under the guidance of Mr. Kulkarni and Mr. Bhople. They implemented and tested their own-designed antennas using provided equipment and components. The range and transceiver signal capabilities of the antennas were verified in real-world scenarios around the college campus, providing students with valuable practical insights. A practical session was conducted using RF Spike software at the [Lab Name], where students explored the differences in S/N ratios of FM signals. This hands-on exercise provided practical exposure to signal processing in real-world applications.

A brief practical session on sonar applications was conducted, offering students a glimpse into the broader applications of radar technology.



The workshop concluded with a verdict-ory session, where students provided valuable feedback. This interactive session allowed for reflections on the learning experience, and students had the opportunity to share their insights and queries.

Special thanks were extended to Mr. Anirudha Kulkarni and Mr. Mukund Bhole for their invaluable contribution. In the closing segment, the HoD Dr. P. R. Deshmukh and teachers Meshram ma'am and Paikrao sir expressed their gratitude to the guests, students, and everyone involved. Mr. Kulkarni and Mr. Bhole also shared their concluding remarks, expressing their satisfaction with the students' enthusiasm and the overall success of the workshop.

The "Antenna and Radar Designing" workshop served as a platform for knowledge exchange and practical skill development, leaving a lasting impact on the students' understanding of advanced electronic systems.



Picture Perfect



Om Mahulkar - First year



Aniket Gulhane - Final year



Om Mahulkar - First year



Sejal Kawalkar - Final year



Vividha Vaidya - First year



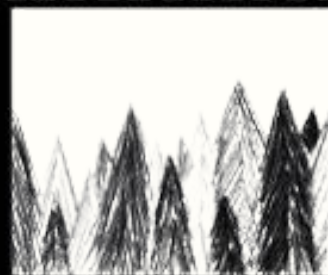
Vividha Vaidya - First year



Ayushi Sarate - Final year



Vividha Vaidya - First year



ENTC Triumph: Kalpana Chawla Trophy Victory



The Kalpana Chawla Trophy (KCT) stands as the pinnacle of sporting excellence within our college, serving as the annual inter-departmental sports event that garners eager anticipation and participation from the entire college populace. Comprising a diverse array of indoor and outdoor games, the KCT represents a platform where students showcase their athletic prowess and competitive spirit.

Months preceding the event witness diligent preparation and rigorous practice sessions undertaken by students across departments, fueled by the aspiration to secure victory and bring glory to their respective departments. This year, after unwavering dedication and steadfast determination, the Electronics and Telecommunication Engineering (ENTC) department emerged triumphant, breaking the Civil department's five-year winning streak.

The attainment of the coveted trophy by the ENTC department can be attributed to the collective efforts and exceptional performances of its students across various sporting disciplines. Their relentless pursuit of excellence and exemplary sportsmanship resulted in numerous victories across the scoreboard, ultimately clinching the top position and bringing the trophy home.

Throughout the event, the unwavering support and encouragement from fellow students and spectators served as a source of motivation, amplifying the spirits of the competing teams. Their enthusiastic cheers and steadfast solidarity further bolstered the confidence of the ENTC department athletes, underscoring the strong sense of camaraderie and sportsmanship that characterizes the KCT tournament.

Departmental Dance and Drama



In the departmental dance competition, each participating department was assigned a specific Rasa, or emotional essence, from Indian classical traditions. The Electronics and Telecommunication Engineering (ENTC) department was allocated the "Bhayanaka" Rasa, which embodies the essence of fear. Their performance centered around a narrative depicting a young woman ensnared by the grip of fear during a dark and eerie night, transforming the dance into a captivating portrayal of horror. Through meticulous choreography and seamless coordination among the dancers, the ENTC department distinguished themselves by securing the coveted first position and earning the title of winners of the departmental dance competition.

Dancers:- Sukhada Mohod , Mihir Jaiswal, Shubhangi Daberao , Mayur Salotkar, Nupur Tawar, Parnavi Mankar, Darshana Kashikar, Vividha Vaidya, Dnyaneshwari Ade, Yashika Gajbhiye, Arnab Saratkar, Rahul Bamankar, Lokesh Bodhane, Dinesh Dhage.



The theme of the departmental drama revolved around Mental Health, with a poignant focus on the protagonist, a young girl grappling with depression triggered by her consistent poor performance in exams. The climax of the drama arrived with a pivotal scene where the protagonist's parents, portrayed with empathy and sensitivity, offered their unwavering support and unconditional love. Through heartfelt dialogue and gestures of reassurance, they conveyed a powerful message of acceptance and encouragement, igniting a spark of hope within their daughter's troubled heart. This phenomenal acting and script secured the title of 1st runner up in departmental drama.

CAST: Purva Bobade, Samruddhi Pawar, Shravani Suryakar, Mayank Rangari, Rupesh Amrutkar, Vashishtha Padole, Manan Deore, Bhagyashri Jadhao, Akshat Tated , Shravani Bhuyar.

EDITING/ BGM: Vedant Chaware, Om Mahulkar, Saurabh Patil, Sukhada Mohod, Shreyash Charjan, Satyajeeet Deshmukh, Gaurav Kawalkar.

WRITERS- Anshul Pote, Manan Deore, Shravani Bhuyar.

Students' Achievements



Pratik Raghuwanshi

Choosing entrepreneurship as his path, Pratik views it as an opportunity to translate laboratory-developed solutions into end-user products to address real-life problems. Entrepreneurship grants him the freedom to innovate and adapt to market demands while encountering fresh challenges daily, allowing for the application and expansion of their skill set.

He manages the day-to-day activities of the company while simultaneously engaging in the product design and development of Able glasses. He holds two patents and have prior experience as an Embedded Developer with a France-based multinational corporation, focusing on the research and development of wearable smart glasses. This experience has afforded them crucial insights into smart glasses technology and user requirements within the industrial landscape.

1. **Top 10 team in the Boeing Build 3.0 organized by IIT Bombay.**
2. **1st rank in in Engineering and Technology category and UG level at the 16th Aavishkar: Maharashtra State Inter-University Research Convention 2023-24.**
3. **Winner in the startup pitching competition at BharatCon24.**
4. **Winner of The Global Entrepreneurship Summit 2023-24 by Jai Hind College of Mumbai on 20th of January 2024.**
5. **Winner ScaleUp Pitchathon event under Uttishtah'24 of IIM Kashipur.**
6. **Secured 6th rank at the National Enteripureship Conclave 2.0 by theLead College of Management, Palakkad Kerala.**
7. **Interacted with Mr. Devendra Fadnavis Deputy Chief Minister of Maharashtra at Advantage Vidarbha startup Expo, Nagpur.**
8. **Top 8 winner startup of EO GSEA India Semi-Finals 2024**

Placements



Samarth Deshmukh

**TCS
(Ninja hiring)**



Viraj Kadu

**TCS
(Digital hiring)**



Anurag Wankhede

**TCS
(Ninja hiring)**

Magazine Committee



Ayushi Sarate (Final year)



Aniket Gulhane (Final year)



**Gaurav Kawalkar
(3rd year)**



**Krushna Bhuyar
(1st year)**

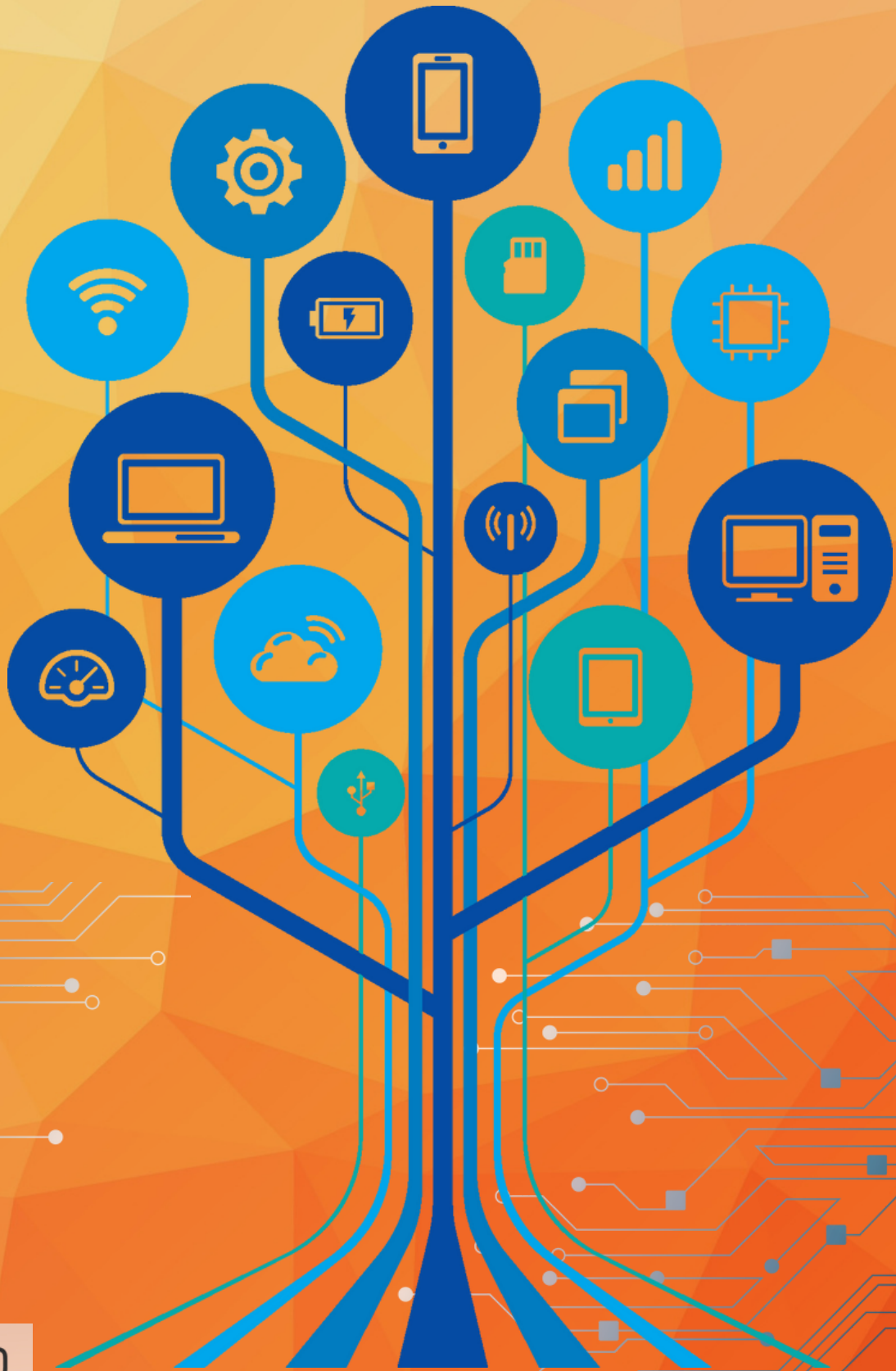


**Anshul Pote
(1st year)**

Contributors

Sejal Kawalkar
Vedant Chaware
Anushka Gupta
Shravani Bhuyar
Akanksha Deshmukh
Samruddhi Pawar

Sharwari Pawar
Om Mahulkar
Vividha Vaidya
Vasanti Bonde
Vishakha Meshram



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