Vol 2, 2023 - 24

ANNUAL NEWSLETTER
DEPARTMENT OF COMPUTER ENGINEERING
GOVERNMENT POLYTECHNIC MUMBAI

(AN AUTONOMOUS INSTITUTE OF GOVERNMENT OF MAHARASHTRA)
49, ALI YAVAR JUNG MARG, KHERWADI, BANDRA EAST, MUMBAI, MAHARASHTRA 400051

PREFACE

This newsletter highlights the achievements of the Department of Computer Engineering during the academic year 2023-2024. It features addresses from the Principal and Head of Department, and provides an overview of key activities and accomplishments by students and faculty. Additionally, it details various departmental initiatives and events conducted throughout the year. We hope this publication serves to inform and inspire our students, parents, and stakeholders. Feedback and suggestions are welcome as we present this newsletter with pride on behalf of the Computer Engineering Department.

Published:1st Oct 2024

INSTITUTE VISION

Transform knowledge into work.

INSTITUTE MISSION

We are committed for:

- Quality education for lifelong learning.
- Need based educational programmes through different modes.
- Outcome based curriculum implementation.
- Development and upgradation of standard laboratory practices.
- Promoting entrepreneurial programmes.

ABOUT US

Government Polytechnic Mumbai, founded in 1960, is an autonomous institute in Maharashtra. It gained autonomy in 1994 and is renowned for industry projects. It offers 3-years AICTE-approved diploma programs in 11 engineering branches with an outcome-based curriculum and six month in-plant training since 2019.

ABOUT OUR DEPARTMENT

Department of Computer Engineering was established in year 1992 with intake of 60 students. It also runs Minority shift with intake of 60 students which was started in year 2011. The department has good infrastructure with well-established laboratories.

The department has experienced and dedicated faculties who give personal attention to each and every individual student. The department emphasises on effective teaching learning process including project based learning using modern tools and technologies. Department is working hard to improve upon the quality of education and the students overall performance in the era of rapidly changing technology.

“In this era of Digital & Cyber world, we at Department of Computer Engineering works for providing latest & modern curricula, deployment of latest tools & technology, inculcate positive-attitude, self-learning & problem solving skills among students and to train faculty with modern pedagogy and skills.”

OUR VISION

Develop skilled Computer Professionals to cater the needs of Industry and Society.

OUR MISSION

- To develop competent technicians who are proficient in the design and implementation of Computational systems.
- To offer programs for sustainable development using continuous curriculum improvements to keep pace with emerging technologies
- To encourage students to become entrepreneurs.

PRINCIPAL'S KEYNOTE

DR. NITIKET N. MHALA
B.E. ,M.E ,Ph.d

Dear students, faculty members, staff and readers,
I am pleased to address you all through this newsletter as we celebrate the remarkable accomplishments of our Computer Engineering Department at our prestigious polytechnic college. It is with great pleasure that I share my thoughts on the expanding realm of technology and its profound impact on our lives. At our college, we foster a dynamic and forward-thinking learning environment that empowers our students to become the next generation of tech pioneers. Through our rigorous curriculum, state-of-the-art facilities, and dedicated faculty, our students are equipped with the knowledge, skills, and mindset necessary to excel in this field.

As we navigate the digital landscape, it is essential for us to embrace innovation while upholding ethical considerations and responsible practices. Our CO Department not only instills technical expertise but also emphasizes the importance of ethical decision-making, cybersecurity, and privacy protection. We aim to cultivate well-rounded professionals who excel in their technical prowess and demonstrate a strong commitment to integrity, teamwork, and societal impact.

Collaboration is key to driving meaningful progress, and our department actively fosters partnerships with industry leaders, research institutions, and community organizations to provide students with real-world experiences and opportunities for cutting-edge research. These collaborations enrich our students' education and contribute to the advancement of knowledge and betterment of society. As we move forward, our CO Department remains committed to staying at the forefront of technological advancements, continuously adapting our curriculum to meet the evolving needs of the industry.

To our students, I encourage you to embrace curiosity, tenacity, and creativity as you embark on this exciting journey. To our faculty members and staff, I extend gratitude for your unwavering dedication and commitment to excellence. Let us celebrate the achievements of our CO Department and recognize the great potential it holds for society. Thank you, and I wish you all continued success and fulfillment in your endeavors.

Warm regards,
Dr. Nitiket N. Mhala
Principal [Government Polytechnic Mumbai]

HOD'S MESSAGE

Sep 2023 to Dec 2023

Dear Colleagues and Students,

It is with great pride and pleasure that I present the annual Newsletter of our department. This publication highlights the key events and activities involving our students, faculty, and staff. It serves as a reflection of our collective efforts and accomplishments over the past year.

In today's digital and interconnected world, Computer Engineering plays a crucial role in nearly every aspect of our daily lives. We are committed to creating an environment that prioritizes the best interests of our students, ensuring they have an enriching educational experience that will shape their future.

This newsletter reflects the ongoing efforts and dedication of our faculty, staff, and students. It is a testament to the hard work that drives the growth and development of our department. I sincerely thank everyone who contributed to this publication and helped us move closer to realizing our goals.

Warm regards,

Mrs. Neha H. Vachani

Head of the Department

Computer Engineering

HOD'S MESSAGE

Jan 2024- till date

Dear colleagues and students,

It gives me immense pleasure to lead the department of computer engineering .The goal of the department is to satisfy the need of industry and by producing informative and committed engineers. This is achieved by imparting in depth theoretical knowledge during the lectures followed by hands-on in state-of-the-art laboratories.

In the present era of Digital & Cyber world, Computer Engineering plays an important role in almost every sphere of our life.

We believe in working hard to foster a culture that is always focused on doing what is best for students and ensuring that they have a positive educational experience that will impact them for a lifetime.

Publishing the newsletter gives a chance to introspect as to how close we are towards achievement of our goals. This publication is a testimony to the unwavering dedication of our faculty, staff members and students who have tirelessly contributed towards department's overall growth .

I would like to thank all contributors including faculty, staff members and students for their valuable inputs towards achieving our vision.

Mr. A. K. Dhulshette
Head of the Department
Computer Engineering

FACULTY PROFILE

Mrs. Neha H. Vachani
M.Tech(Computer science &engg)

Mrs. Vandana S. Lokhande
M.Tech(Computer science &engg)

Mrs .Vrushali A. Patil
B.E.(Computer Engineering)

Mrs. Rupali V. Molawade
M.E.(Computer Engineering)

Mrs. Prajakta Sadafule
M. Tech. (Computer Engineering)

Mrs. Rupali M. Komatwar
Ph.D. Computer science & Engg.

Ms Jijnasa S. Patil
M. Tech. (Computer Engineering)

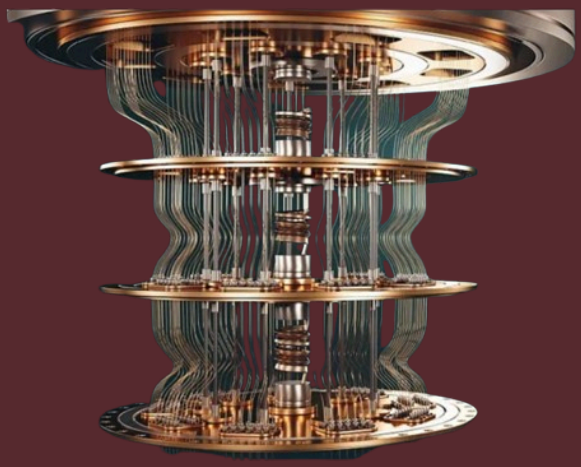
Ms. Asha V. Wankar
B.Tech. Computer Engineering
Pursuing M.Tech

MOUs

Airbots Aerospace Pvt Ltd.

RECENT TRENDS IN TECHNOLOGY

QUANTUM COMPUTING



Quantum computing is no longer a distant dream but an exciting reality shaping the future of computation. Unlike classical computers, which process information as bits (0s and 1s), quantum computers use qubits, allowing them to perform multiple calculations simultaneously. This unique property enables quantum computers to solve problems in seconds that would take classical computers millions of years.

Recent breakthroughs in error correction and quantum algorithms have pushed us closer to the so-called "quantum supremacy," where quantum computers outperform the fastest classical ones. Tech giants like IBM and Google are spearheading research, and even small startups are entering the race. The implications are vast—from cryptography and optimization problems to drug discovery and materials science. For students and educators, this is a golden opportunity to get involved in a field that's poised to revolutionize industries we can't even imagine yet.

SATELLITE CONSTELLATIONS

Connecting the Unconnected

The next frontier in communication isn't just on Earth—it's in the sky. Satellite constellations are reshaping global internet access. Companies like SpaceX's Starlink and OneWeb are deploying thousands of small satellites into low Earth orbit (LEO), creating networks capable of providing high-speed internet to even the most remote regions of the planet. This means better connectivity for rural areas, reduced internet latency for global communications, and opportunities for IoT and data services in agriculture, health, and education.

But it's not just about faster internet. Satellite constellations hold potential for climate monitoring, disaster management, and even interplanetary communication. This trend opens up a fascinating world of possibilities for students passionate about space technologies and communication networks. As satellite launches continue, we are moving toward a future where the sky is no longer the limit—it's the infrastructure.

ALUMINI CONTRIBUTION 2024

SHIVAM KANDHARKAR

Shivam Kandharkar, a dedicated student of the Computer Engineering Department, has inspired his peers through his achievements and guidance. After completing his diploma at Government Polytechnic Mumbai and gaining international exposure, Shivam returned to deliver an insightful lecture, sharing his experiences and advising fellow students on pursuing global opportunities. His admission to Tor Vergata University of Rome, Italy, for a Bachelor of Engineering degree reflects his hard work and commitment to excellence, leaving a motivating legacy for the department.This session was a source of inspiration and guidance for aspiring students aiming to pursue higher education abroad.

We extend our heartfelt congratulations to Shivam and wish him continued success in all his future endeavours.

ALUMINI CONTRIBUTION

SHRI KRISHNA PATIL

We are delighted to share that our department successfully hosted a 2-day boot camp on 3rd & 4th October 2024 on Basic Full Stack Development, organized by our alumni and founders of Effilearn, a dynamic learning platform.

The camp was conducted by Shri Krishna, our esteemed alumni, along with the co-founders of Effilearn. The interactive sessions focused on the foundational concepts of HTML, CSS, JavaScript, and Python, making it an enriching and engaging learning experience for participants.

The boot camp not only enhanced students' technical skills but also provided them with an opportunity to interact with accomplished professionals and gain practical insights into full stack development.

We extend our heartfelt appreciation to the Effilearn team for their invaluable contribution and look forward to more such knowledge-sharing initiatives in the future.

TOPPER'S LIST

FIRST

SHREYAS DESHMUKH

90.44%

SECOND

SHUBHAM MISTRY

90.25%

THIRD

ARYAN HULAWALE

90.13%

First Year First Shift

TOPPER'S LIST

SECOND

SAIRAM JOSHI

91.63%

FIRST

REHAN LOGDE

91.75%

THIRD

TASMIYA SHAIKH

91.03%

First Year Second Shift

TOPPER'S LIST

SECOND

AVANTIKA PATIL

93.70%

FIRST

SHREY SAWANT

94.83%

THIRD

AARYA PATIL

93.50%

Second Year First Shift

TOPPER'S LIST

FIRST

HARSHAD KHATALE

94.41%

SECOND

FAHAD SHAIKH

91.52%

THIRD

FUZAIL KHAN **SANIA SHAIKH**

90.75%

Second Year Second Shift

TOPPER'S LIST

FIRST

SAHIL CHAVAN

97.10%

SECOND

RONIT SONAWANE

96.90%

THIRD

RACHIT CHHEDA

96.80%

Third Year First Shift

TOPPER'S LIST

FIRST

SUJAL DIGANKAR

96.70%

SECOND

HARSHA SURWASE

96.30%

THIRD

DHRUV JOSHI

95.58%

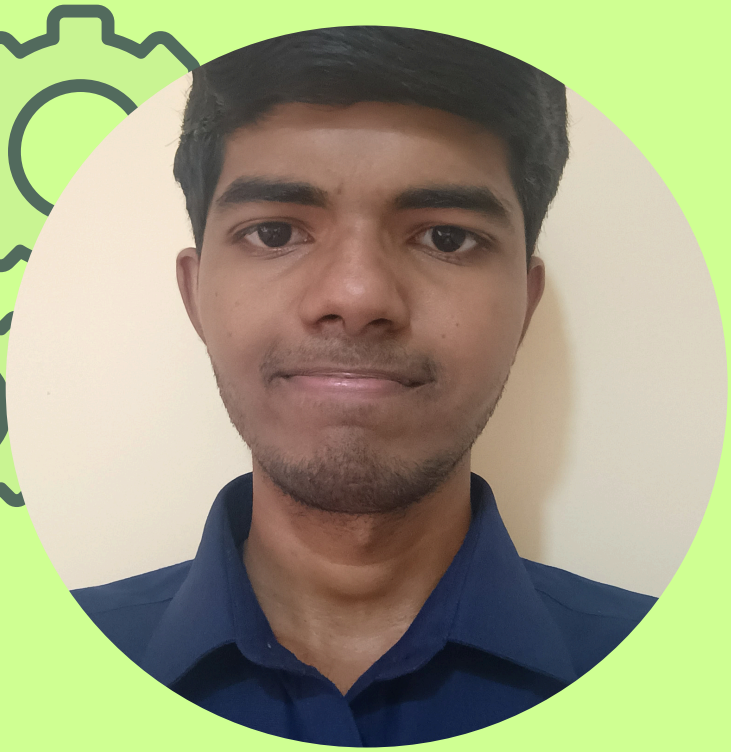
Third Year Second Shift

ELITE STIPEND HOLDERS

Alfiya Siddique

COMPANY	Fyle Technologies Private Limited
ROLE	Backend Developer Intern
STIPEND	35000/-

ELITE STIPEND HOLDERS



Vitthal Popat Gund

COMPANY Renter

ROLE Full Stack Developer Intern

STIPEND 12000/- and incentives

STUDENTS ACHIEVEMENTS

1st Place for
State Level Technical Paper Presentation
held at Thakur Polytechnic Collge.

Aarya Patil & Arnav Patade

1st Place for
State Level Technical Quiz
held at Vivekanand Education Society's Polytechnic.

Priya Gupta, Avantika Patil & Pranav Gadge

3rd Place for
State Level Technical Quiz
held at Agnel Polytechnic

Anshika Arekar & Rucha Redekar

3rd Place for
State Level Technical Paper Presentation
held at Thakur Polytechnic College.

Janhvi Suryavanshi & Rucha Redekar

1st Place for
State Level Technical Quiz
held at Pravin Patil College.

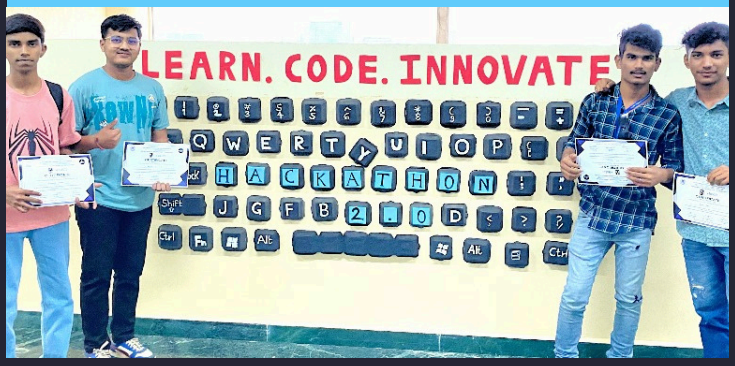
Arnav Patade & Aarya Patil

TECHNICAL EVENTS

Secured 1st place in 24 hours offline hackathon at Vasantdada Patil Prathisthan's College Of Engineering
Team: Akash S., Indrajeet M., Shiva B. & Sahil K.

Secured 4th place in 24 hours offline hackathon at Rajiv Gandhi Institute of Technology
Team: Arnav P., Rucha R., Anshika A., & Janhvi S.
Project: EasyX (Currency Convertor)

Participated in 36 hours offline hackathon at Datta Meghe College of Engineering.
Team: Avishkar K., Ayush S., Tejas B. & Aryan P.
Project: Meeting Mastery(AI-Powered Meeting Platform)



Participated in Esummit Bootcamp
Indian Institute Of Technology – Madras
Team: Shrikrushna P., Ronit S. & Vedant S.
Project: Farmer's Buddy (Farming Assistant Tool)

ENGINEER'S DAY CELEBRATION

Why we celebrate engineer's day

Sir Mokshagundam Visvesvaraya

Born	Died
15 Sept 1861 Muddenahalli	**14 Apr 1962** Bengaluru

India celebrates Engineer's Day on September 15th to honor the birth anniversary of Sir Mokshagundam Visvesvaraya, a prominent Indian engineer and statesman

ATTENTION

As part of the Engineer's Day celebrations, the Department of Computer Education hosted a series of engaging competitions to honor the innovative spirit of engineering students. The competitions aimed to showcase students' talents in areas such as public speaking, coding, and technical research.

Competition:

1. Speech Competition
2. Coding Competition
3. Technical Paper Presentation

RESULTS

- SPEECH COMPETITION:
  WINNER: Ms. Gauri Salvi
  RUNNER-UP:
  Ms. Sakshi Umbarkar
  Mr. Amay More
- CODING COMPETITION:
  WINNER: Mr. Jayesh Jain
  RUNNER-UP:
  Mr. Shree Alasande
- Technical Paper Presentation:
  WINNER: Ms. Aarya Patil
  RUNNER-UP:
  Mr. Dyandeep Gaonkar
  Mr. Atharva Manjrekar

Every man who has become great owes his achievement to incessant toil.
~Sir Mokshagundam Visvesvaraya

MOMENTS OF THE DAY

STUDENT CONTRIBUTION TO THE NSS CELL

QUIZ WINNERS

1. Ms. Riya D'Silva
2. Mr. Indrajeet Mohite
3. Ms. Aditi Chile

HIGHLIGHTS OF THE NSS ACTIVITIES

Sports Day

MEMORIES

WINNER IN VOLLEYBALL

WINNER IN JAVELIN THROW

PARTICIPATED IN KHO-KHO

RUNNER-UP IN FOOTBALL

RUNNER UP IN SINGLE'S & DOUBLES

WINNER IN CRICKET

PARTICIPATED IN ATHLETICS

WINNER IN CHESS

FOOTBALL TEAM

BADMINTON TEAM

INTER ZONAL CHAMPIONSHIP

CRICKET TEAM

CHESS PLAYERS

EDITOR'S PROFILE

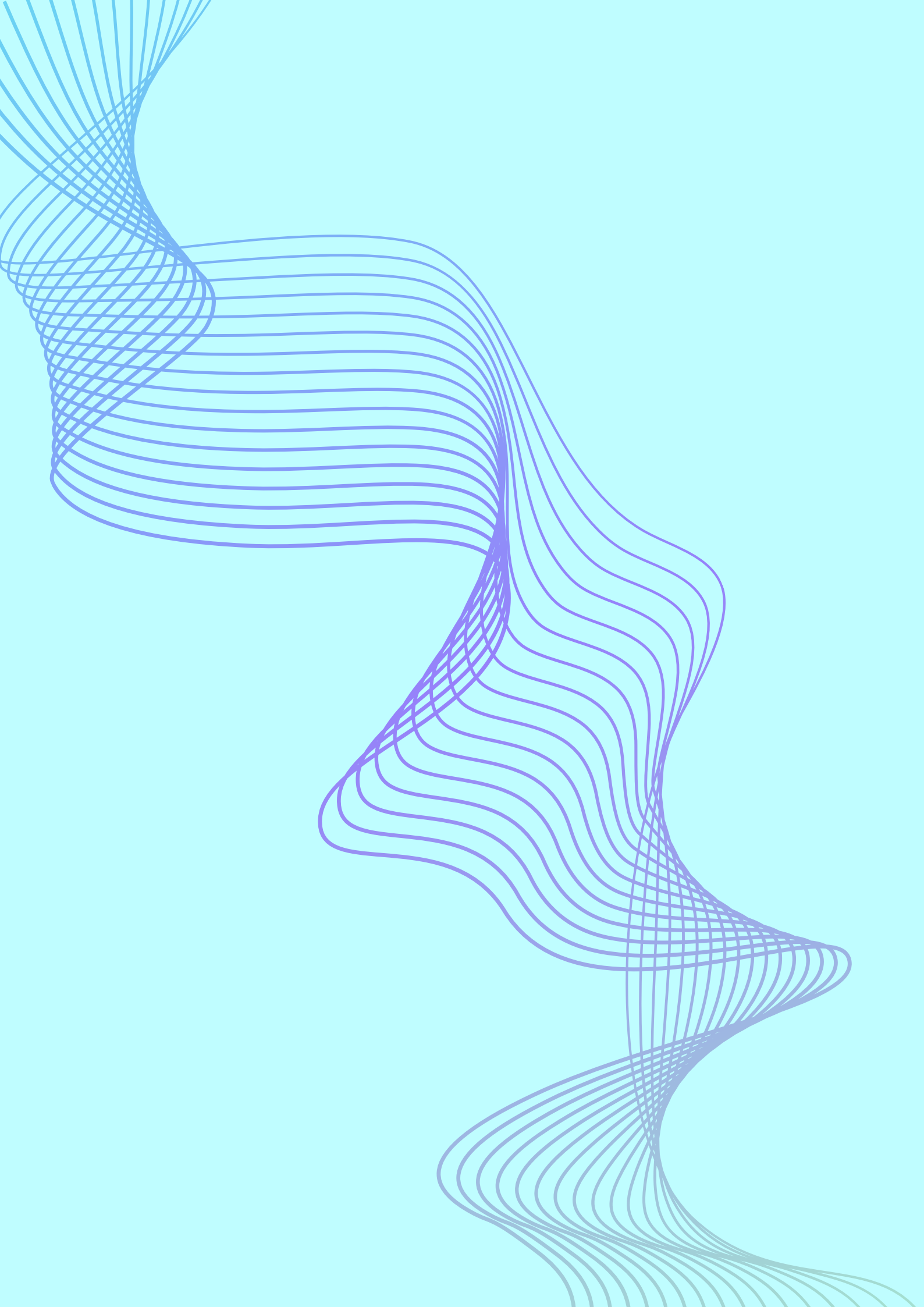
CHIEF EDITOR

Dr. N. N. Mhala
(Principal)

EDITORS

Mrs. Neha H. Vachani

Ms. Asha V. Wankar

STUDENT EDITORS

Ms. Janhvi N. Suryavanshi
Ms. Rucha D. Redekar
Ms. Anshika S. Arekar
Ms. Aarya Y. Patil
Mr. Shrey Sawant