

LEARN • GROW • INNOVATE • EXCEL



EDITION
2026
VOLUME 01

NILKANTH POLYTECHNIC COLLEGE

KALYAN

MAGAZINE

INSPIRE • INNOVATE • IMPACT



QUALITY

EDUCATION

Empowering minds
for a better tomorrow.



INNOVATION

IN ACTION

Ideas today,
impact tomorrow.



TOGETHER WE

ACHIEVE MORE

Unity, teamwork and
a shared vision.



AIM HIGH,

STAY FOCUSED

Dream it. Believe it.
Achieve it.

“*Building Skills,
Shaping Futures.*”



ACADEMICS



TECHNOLOGY



ACTIVITIES



ACHIEVEMENTS



COLLABORATION

Message from the Director



Mr. Nilkanth Munde Sir,

Director

Nilkanth Polytechnic College, Kalyan

It gives me immense pleasure to present the college magazine of Nilkanth Polytechnic College, Kalyan. A college magazine is a reflection of the creativity, talent, innovation, and achievements of our students and faculty members.

Technical education plays a vital role in shaping the future of young minds by developing knowledge, practical skills, problem-solving abilities, and professional values. Our aim is to provide students with quality education, a supportive learning environment, and opportunities to explore their potential.

I encourage all students to remain curious, embrace new technologies, participate in extracurricular activities, and develop a spirit of teamwork and lifelong learning. Let us work together towards excellence, innovation, and a brighter future.

I congratulate the editorial team, faculty members, and students for their sincere efforts in bringing out this magazine. I wish the entire Nilkanth Polytechnic family continued success and achievements.

Our Vision

To encourage technical excellence, innovation, ethical responsibility and lifelong learning among aspiring engineers.

Our Mission

- To promote practical and application-oriented learning.
- To encourage creativity, teamwork and problem-solving.
- To introduce students to emerging technologies and engineering practices.
- To develop professional communication and leadership skills.
- To inspire students to contribute positively to society.

Best Wishes!

Message from the Campus Trustee



Mr.Pritesh Chikankar

Campus Trustee

Nilkanth Polytechnic College, Kalyan

It is a matter of great pride to be associated with Nilkanth Polytechnic College, Kalyan. We are committed to providing students with quality technical education, modern facilities, and a supportive environment that encourages learning, innovation, and overall development.

Engineering education provides students with opportunities to develop practical skills, solve real-world problems and transform innovative ideas into useful solutions.

This annual magazine brings together the academic interests, technical projects, achievements and extracurricular activities of students from Computer Engineering, Electrical Engineering, Artificial Intelligence and Machine Learning, and Civil Engineering.

I wish all students success in their academic journey and a bright future ahead.

Best Wishes,



PRINCIPAL'S MESSAGE

A Message of Inspiration

Prof.Nilesh Shelke

**PRINCIPAL,
Nilkanth Polytechnic**



Dear Students, Faculty Members and Readers,

It gives me great pleasure to present TECHNOVA 2026–27, the annual magazine celebrating the enthusiasm, creativity and achievements of our students.

Technical education is not limited to textbooks and examinations. It is about developing the ability to think critically, solve problems, work collaboratively and apply knowledge to practical situations. As technology continues to transform our world, young engineers must remain curious, adaptable and committed to continuous learning.

The fields of Computer Engineering, Electrical Engineering, Artificial Intelligence and Machine Learning, and Civil Engineering offer exciting opportunities to create meaningful solutions for society. I encourage our students to explore new ideas, participate in technical activities, develop innovative projects and approach every challenge with confidence.

I appreciate the efforts of the students, faculty members and editorial team who have contributed to this magazine. May TECHNOVA become a platform for sharing knowledge, expressing creativity and inspiring future innovators.

I wish all our students success in their academic and professional journeys.

With best wishes,

Prof.Nilesh Shelke

Principal

Nilkanth Polytechnic, Kalyan

H O D ' S M E S S A G E



Prof. Trupti Dhanke

**HEAD OF DEPARTMENT
Nilkanth Polytechnic**

Dear Students, Faculty, and Readers,

It gives me immense pleasure to be a part of the academic journey of our first-year diploma students. The first year of engineering is an important stage that builds the foundation for technical knowledge, practical skills, discipline, and professional development.

At Nilkanth Polytechnic College, we strive to create a positive and supportive learning environment where students are encouraged to think creatively, explore new ideas, and develop problem-solving abilities. We believe that education is not limited to textbooks; it also includes teamwork, communication, innovation, and ethical values.

I appreciate the sincere efforts of our faculty members and the enthusiasm of our students in participating in academic, technical, and extracurricular activities. I encourage all students to remain curious, work consistently, embrace challenges, and make the best use of the opportunities available to them.

I congratulate the editorial team for their efforts in bringing out this college magazine, which reflects the creativity, talent, and achievements of our college community.

Wishing all our students a bright, successful, and inspiring future!

With best wishes,

Prof. Trupti Dhanke
Head of Department
First Year Department
Nilkanth Polytechnic College, Kalyan



EDITOR'S NOTE

Prof. Yogita Mohite
Chief Editor

Technova Magazine

The First Edition – A New Beginning

It gives us immense pleasure to present the **first edition of our college magazine** of Nilkanth Polytechnic College, Kalyan. This magazine marks the beginning of a new journey of creativity, knowledge, innovation, and expression.

It provides a platform for young minds to express themselves, share their experiences, showcase their creativity, and explore new possibilities.

Through this first edition, we aim to celebrate the spirit of learning, technical excellence, teamwork, and innovation that defines our institution. From inspiring articles and poems to technical insights and campus activities, every contribution represents the enthusiasm and dedication of our college community.

We sincerely thank our respected Principal, Head of Departments, faculty members, and students for their valuable support and contributions in making this initiative possible. Their encouragement has helped us take this meaningful first step.

As we launch this first edition, we hope it inspires every reader to dream bigger, think creatively, and continue learning. May this magazine grow with every edition, capturing our journey, achievements, and aspirations.

This is not just our first edition; it is the beginning of a tradition.

Happy Reading!

Editor

Sincerely,

Mrs. Yogita Mohite

Editor In-Chief

Nilkanth Polytechnic, Kalyan

DEPARTMENT OF COMPUTER ENGINEERING (CO)

Connecting Ideas Through Computing

Computer Engineering is at the heart of the digital world. From software applications and websites to databases, networks and cybersecurity, computing technologies influence nearly every industry.

Students of Computer Engineering develop an understanding of programming, logical reasoning, software development and computer systems. These skills help them design applications, automate processes and solve practical problems.

Key Areas of Learning

- Programming and software development
- Data structures and algorithms
- Database management systems
- Computer networks and cybersecurity
- Web and mobile application development
- Cloud computing and operating systems

Career Opportunities

Computer Engineering graduates may explore roles such as software developer, web developer, IT support engineer, network technician, database assistant and junior cybersecurity professional, depending on their skills and qualifications.

DEPARTMENT OF ELECTRICAL ENGINEERING (EE)

Powering Progress

Electrical Engineering plays an essential role in power generation, transmission, distribution, automation and energy management.

Electrical engineers help keep homes, industries, transportation systems and essential services running. With the growing demand for renewable energy and efficient electrical systems, the field continues to offer opportunities for innovation.

Key Areas of Learning

- Electrical circuits and measurements
- Electrical machines
- Power generation and distribution
- Electrical wiring and safety
- Control systems and automation
- Renewable energy technologies

Career Opportunities

Potential career paths include electrical maintenance technician, electrical testing assistant, solar installation technician, industrial automation technician and electrical service professional.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (AIML)

Building Intelligence for Tomorrow

Artificial Intelligence (AI) enables computers to perform tasks that commonly require human intelligence. Machine Learning (ML), a branch of AI, allows systems to identify patterns in data and improve their performance on specific tasks.

AI and ML are increasingly used in healthcare, agriculture, education, manufacturing, transportation and environmental monitoring.

Students exploring this field can develop a foundation in programming, mathematics, data handling and responsible technology development.

Key Areas of Learning

- Python programming
- Data analysis and visualization
- Fundamentals of artificial intelligence
- Machine learning concepts
- Computer vision and natural language processing
- Responsible and ethical AI

Emerging Opportunities

Students may prepare for further study and entry-level opportunities related to data analysis, software development, AI application support and machine learning, subject to their qualifications and practical skills.

DEPARTMENT OF CIVIL ENGINEERING (CE)

Designing the World Around Us

Civil Engineering is responsible for planning, designing, constructing and maintaining infrastructure such as buildings, roads, bridges, water supply systems and drainage networks.

Civil engineers contribute to safe, sustainable and well-planned communities. Modern civil engineering also emphasizes efficient use of resources, environmental protection and resilient infrastructure.

Key Areas of Learning

- Building materials and construction
- Surveying
- Structural engineering fundamentals
- Transportation engineering
- Water supply and environmental engineering
- Estimation, costing and project planning

Career Opportunities

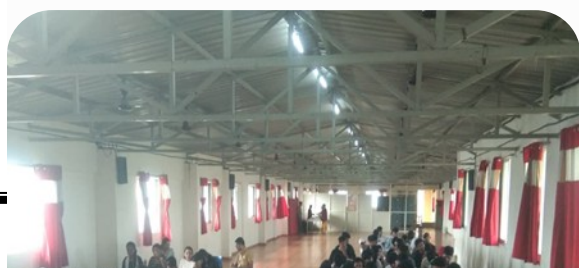
Possible pathways include site supervisor, surveying assistant, construction technician, estimation assistant, CAD technician and further study in civil engineering.

Orientation Programme – A New Beginning

Nilkanth Polytechnic College, Kalyan, organized an Orientation Programme for the newly admitted First-Year Diploma Engineering students to welcome them into the world of technical education. The programme aimed to familiarize students with the college environment, academic curriculum, rules and regulations, facilities, and various opportunities available on campus.

The faculty members introduced students to the importance of engineering education, discipline, teamwork, innovation, and skill development. The session also provided guidance on academic expectations, departmental activities, and the overall learning experience.

The orientation programme helped students feel comfortable and confident as they began their engineering journey. It marked the beginning of a new chapter filled with learning, creativity, and opportunities for personal and professional growth.



INDUSTRIAL VISITS, WORKSHOPS AND ACTIVITIES

Learning Beyond the Classroom

Industrial visits and technical workshops give students an opportunity to observe how engineering principles are applied in real working environments.

Such activities can help learners understand professional practices, equipment, safety procedures and emerging technologies.

Activity Highlights

Industrial Visits: [Ratio Electrical industry, Electrical Dept]

Students visited an electrical industry to understand the manufacturing, testing, and maintenance of electrical equipment. During the visit, students observed electrical machines, wiring systems, control panels, and safety measures followed in the industry. The visit provided practical knowledge about industrial operations and the importance of electrical safety. It was an informative and valuable learning experience for all students.



These sessions bridge the gap between classroom learning and real-world applications, inspiring students to enhance their technical skills and prepare for future challenges.



Expert Lectures: [By SmartByte, Date:8/10/2026]



**Technical Workshops:[By Milestone ,Data Analytics, Mr.Prince Pal
Date:13/10/2026]**



Technical Competitions: [Poster Presentation & Quiz Competition, Date: 22/09/2026]

Our college celebrated Engineers' Day by organizing a Poster Making Competition and a Quiz Competition for students. The poster competition encouraged creativity and innovation, while the quiz competition tested students' technical knowledge and general awareness about engineering. The event promoted teamwork, technical learning, and the importance of engineers in nation-building.



Skills Developed Through Activities

- Practical understanding
- Teamwork and collaboration
- Communication and presentation
- Problem-solving
- Time management

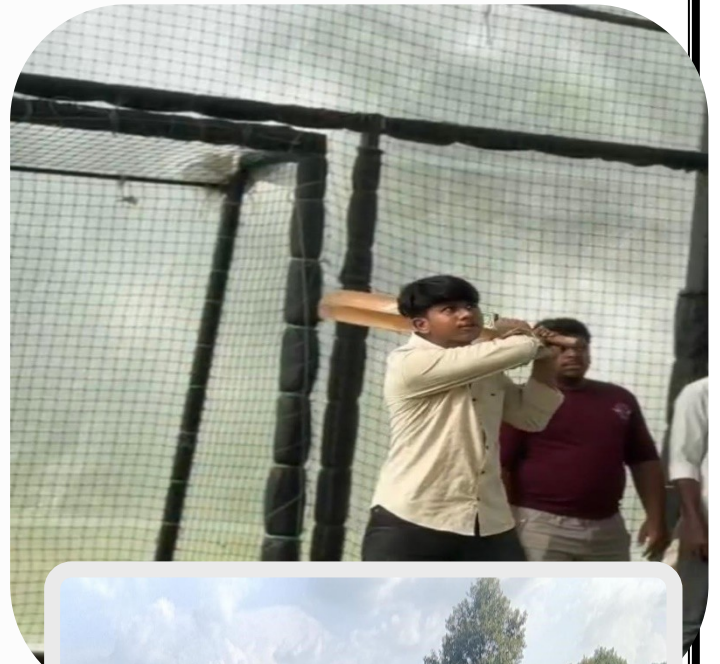
- Professional responsibility

SPORTS ACTIVITIES

Sports and Fitness

Sports encourage discipline, teamwork, resilience and respect for others. Participation in indoor and outdoor games also promotes physical fitness and healthy habits.

Sports Activities: [Cricket,Badminton,Kho-Kho,Carrom,Chess]





Medical Camp & Patients Counseling



Engineering develops analytical thinking, but creativity allows students to express their experiences, imagination and individuality.

A Student's Dream

I dream of building a world where technology serves humanity, where innovation solves everyday problems, and where knowledge opens doors to opportunity.

As an engineering student, I know that every great achievement begins with curiosity and the courage to try. Each practical session, every new concept and every challenge teaches me something valuable.

My journey is not only about earning a qualification. It is about becoming a responsible professional who can contribute to society.

With determination, teamwork and continuous learning, I hope to turn my dreams into meaningful achievements.

Memories of TECHNOVA 2026–27





Acknowledgements

The editorial team expresses its sincere gratitude to the college administration, principal, faculty members, department coordinators, students and contributors for supporting the preparation of TECHNOVA 2026–27.

We appreciate the time, creativity and effort invested in collecting articles, sharing technical knowledge and documenting student activities.

This magazine represents a collective commitment to learning, innovation and student development.

Learn with curiosity. Build with confidence. Innovate with purpose.

May TECHNOVA 2026–27 inspire every student to explore new possibilities, develop practical skills and contribute to a brighter future.

TECHNOVA 2026–27
Nilkanth Polytechnic, Kalyan



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