CONTENTS

☐ Chief Editor:

Ms.N. M. Bahirame

☐ Editor:

Ms. J. R. Dhavale

☐ Student Editor:

Ms. Rituja Bardapure

BITS AND BITES

NEWSLETTER

SUMMER 2025

Department Vision Missions:

Vision

To groom technically competent IT engineers to satisfy the needs of industry and society.

Mission

1. To impart effective teaching and learning, to nurture students fundamentals and technical knowledge.

2. To enhance practical learning to meet the industrial needs.

3. To promote ethical and moral values through co- curricular and extra-curricular activities.

Department of Information Technology
Jayawantrao Sawant Polytechnic

FOUNDER SECRETARY'S MESSAGE:

Dear Students,

It gives me great pride to see our institution growing as a center of learning, innovation, and values. Our journey has always been guided by a vision to empower students with knowledge, character, and purpose.

I commend the efforts of our dedicated faculty and the enthusiasm of our students in keeping the spirit of excellence alive. Let us continue to move forward with passion and integrity, shaping a brighter future together.

Warm wishes.

PRINCIPAL'S MESSAGE:

Dear Students,

It brings me great joy to witness the continued growth and achievements of our college community. Each day, your dedication to learning, teaching, and innovation strengthens the foundation of our institution.

Let us keep striving for excellence, embracing new challenges, and upholding the values that define our college. Together, we can shape a future filled with purpose and progress.

Best wishes.

HEAD OF THE DEPARTMENT'S MESSAGE:

Dear Students and Faculty,

It is a privilege to lead a department that continues to excel in academics, research, and innovation. I am proud of the commitment shown by our faculty and the enthusiasm of our students.

Let us continue to work together, inspire one another, and strive toward greater academic and professional achievements.

Warm regards.

EDITOR'S MESSAGE

Dear Readers,

It gives us immense pleasure to present this edition of our college newsletter, capturing the vibrant spirit, achievements, and creativity of our campus community. Each page reflects the hard work, talent, and dedication of our students and faculty. The theme of this edition is **'Women in Tech.'**

We hope you enjoy reading it as much as we enjoyed putting it together!

Warm regards,

TECHNICAL EVENTS/ ACTIVITIES

The Department of Information Technology organized a Guest lecture on "Python and Java programming " under the subjects of PWP and JPR for Second year students. Ms. Pratiksha Rachmale and MR. Korake sir are the chief guest for program. They enlightened students regarding basics and advanced concepts and also about the practical demonstration of Python and JAVA programming.

SYIF Code Fest 2025 was a two-day event filled with coding competitions, tech talks,

and collaborative innovation. Participants showcased creativity and problem-solving skills across

various challenges. The event fostered learning, networking, and enthusiasm for technology,

making it a successful and inspiring experience for all attendees.

NEW COLLABORATION AND MOUS

Information Technology Department of JSPM's JS POLY Hadapasar has successfully organized Industrial Visit to Stylopedia Pvt. Ltd. Satara on 17th Jan. 2025.

Introduction of the owner of Stylopedia - Mr. Jay Gaikwad Sir UPSC qualified and joined Indian Military Intelligence and worked as a spy, Cyber crime, Cyber security officer and many other roles for 18 years. And started own firm named as Stylopedia Pvt. Ltd. Satara which is currently working in cyber security and cyber crime domains with Indian government, Maharashtra state ATS(Anti Terrorist Squad) department, and with other state police departments from the last few years.

Industrial Visit details -Jay Gaikwad sir enthusiastically guided TYIF students for cyber security and cyber crime domains giving examples of some true cases and also showed some skills of cyber security. Also Motivated students to enhance their skills for cyber security domains and various opportunities in the domain. The session was very knowledgeable and students also interacted with the Jay Sir asking various questions. Faculty member Mr. V. H. Pachangane and student Ms. Khushbu Tirkhunde expressed their hearty gratitude to Jay sir for his valuable time and guidance to students.
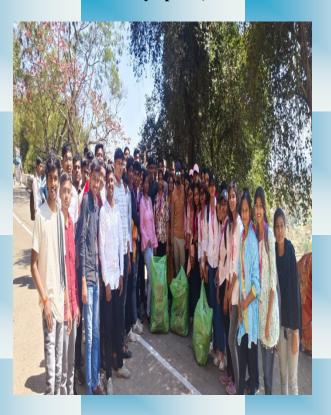
INDUSTRIAL VISITS

Industrial Visit to **Stylopedia, Satara**

Industrial Visit to **I2I speciality, Pune**

Fort Cleaning activity Conducted at Shivaneri Fort

STUDENTS' ACHIEVEMENTS

Result Summer-2025

DEPARTMENT TOPPERS

Rank	Name of Student	Class	% Result
1	RANI HARIDAS MATHE		92.67
2	SHWETA ANGAD JADHAV	TYIF	92.53
	PRATIK RAJARAM DIVEKAR		92.53
3	OM JAYDIP KODRE		91.60
1	RUTUJA SHIVRAJ BARDAPURE		90.12
2	PRANALI KESHAV BHAGVAT	SYIF1	88.71
3	SHRAVANI JAYESH WAGH		86.59
1	DIKSHA SAKHARAM WAGHMARE		85.29
2	DNYANESHWARI BHAUSAHEB DHOKANE	SYIF2	84
3	PRINCE KUMAR SAMAR JHA		81.65
1	NAKATE PRANAV RAMESH		86.24
2	LOKARE YASH UMESH	FYIF 1	85.29
3	TAMBARE RAJNANDINI RAMESHWAR		84.59
1	OMAR ZAFAR SHAIKH		94.12
2	BHISE DIKSHA SUBHASH	FYIF2	92
3	SHRIMAN SOHAM SANTOSH		89.65

STUDENTS' ACHIEVEMENTS

Project Exhibition organized by TYIF Students

25 papers were published by all the Third year students under the guidance of all the faculty members at state level as well as national level journals.

22 groups of students participated in Project Competition at national and state level project completions.

TECHMANTHAN

Winner in project competition at techmanthan

Project title "Augmented Reality Based Application."

National level Technical activity was organized by JSPM Hadapsar campus. Department of Information Technology organized Code Fest Event successfully. Many of our students won in various activities organized by other institutes in Techmanthan.

The Department of Information Technology is glad to share the success of SYIF students in the Business Quiz competition held by JSPM's MBA Department Hadapasar campus at the national level Techmanthan event. They secured 2nd prize.
 Team members: 1. Vedant Desai   2. Shravan Shinde

Extra-Curricular Activities

Speech competition of the occasion of ShivJayanti

Bollywood Day Celebration

Farewell of TYIF Students

Sports Day

STUDENTS' ARTICLES

Ada Lovelace — The First Computer Programmer

By Ms. Chetana Wagh

Early Life and Education

- **Birth & Family:** Ada Lovelace was born on December 10, 1815, in London, the only legitimate child of the poet Lord Byron and Lady Annabella Milbanke. Her parents separated soon after her birth, and Byron never played a significant role in her upbringing
- **Mathematical Roots:** Her mother, determined to ground her in logic, raised Ada with a strong emphasis on mathematics and the sciences—a highly unusual path for women at the time.

Collaboration with Charles Babbage

- **Mentor Meets Prodigy:** In her late teens, Ada met the brilliant mathematician and inventor Charles Babbage. Fascinated by his Difference Engine, she quickly became his collaborator and confidante in his work

The Analytical Engine & Groundbreaking Notes

- **Translation and Amplification:** In 1843, Babbage asked Ada to translate an article by Luigi Menabrea describing the Analytical Engine. Ada not only translated it but added her own extensive **notes**, which tripled the content of the original article
- **Note G – The First Algorithm:** Among her annotations, *Note G* stands out—a detailed algorithm for computing Bernoulli numbers using the Analytical Engine. This is widely regarded as the **first published computer program**
- **Visionary Insight:** Ada saw beyond mere arithmetic—she proposed that machines could manipulate symbols, create music, art, and language, foreshadowing modern computing's vast potential **Legacy and Recognition**
- **Posthumous Fame:** Ada's contributions remained largely unrecognized until 1953, when her notes were republished in *Faster Than Thought*. They came to be seen as early visions of computing, marking the birth of algorithmic thought
- **The 'Ada' Programming Language:** In honor of her pioneering work, the U.S. Department of Defense named a high-order programming language "Ada" in 1979. It's still in use today, particularly in systems such as aviation and space.
- **Ada Lovelace Day:** Since 2009, the **second Tuesday in October** has been observed as Ada Lovelace Day—a celebration of women's contributions to STEM, with events and outreach around the world
- **Modern Celebrations:** Her life and work continue to inspire, earning coverage in modern media. Notably, a recent play "Intelligence" dramatizes her struggle for recognition in Victorian London and beyond

Reshma Saujani: Empowering the Next Generation of Women in Technology

by Ms. Sarde Priyanka

Reshma Saujani is a trailblazing American activist, lawyer, and author, best known as the founder of Girls Who Code, a nonprofit organization dedicated to closing the gender gap in technology. Her work has inspired countless young women to pursue careers in computer science and engineering.

🎓 Early Life and Education:

Born on November 18, 1975, in Illinois, U.S., Saujani pursued higher education at:

University of Illinois at Urbana-Champaign – Bachelor of Science

Harvard University – Master in Public Policy

Yale University – Juris Doctor

Her academic background laid the foundation for her future endeavors in law, politics, and activism.

💼 Career and Founding of Girls Who Code

Saujani's career began in law, working at firms like Davis Polk & Wardwell LLP and Fortress Investment Group. In 2010, she made history as the first Indian American woman to run for U.S. Congress. During her campaign, she observed the significant gender gap in computer science education, which inspired her to establish Girls Who Code in 2012. The organization aims to teach young women coding skills and empower them to pursue careers in technology.

📚 Advocacy and Publications

Beyond her work with Girls Who Code, Saujani is a vocal advocate for women's economic empowerment. She founded Moms First (formerly Marshall Plan for Moms) to address issues like affordable childcare, paid leave, and equal pay. She is also the author of several books, including:

Brave, Not Perfect – Encourages women to embrace imperfection and take risks.

PAY UP: The Future of Women and Work (And Why It's Different Than You Think) – Discusses the structural changes needed to achieve gender equity in the workplace.

Girls Who Code Book Series – Aims to inspire and educate young girls about coding and technology.

🌐 Global Impact

Under Saujani's leadership, Girls Who Code expanded its reach to over 670,000 girls worldwide through various programs, including summer immersion programs, after-school clubs, and a bestselling book series. The organization operates in the United States, Canada, India, and the United Kingdom, aiming to inspire and equip young women with the computing skills to pursue 21st-century opportunities.