

Summer 2023

BITS AND BITES

NEWSLETTER



JAYAWANTRAO SAWANT POLYTECHNIC
DEPARTMENT OF INFORMATION TECHNOLOGY

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BITS AND BITES

Newsletter

“BITS AND BITES”

Departments 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.

FOUNDER SECRETARY'S MESSAGE

As the Founder–Secretary, I am delighted to see our young engineers making consistent progress in academics, projects, and technical competitions. This newsletter reflects your hard work, creativity, and dedication. Always remember that every small step you take today shapes your future as an engineer. Keep exploring, keep experimenting, and most importantly, keep believing in your abilities. We are here to support your journey toward success.



Prof. Dr. T. J. Sawant
Founder Secretary

PRINCIPAL's MESSAGE :

Education is not only about acquiring knowledge but also about shaping character and building a strong value system. I am delighted to see our students excelling in both academics and co-curricular activities. Each project undertaken, each idea explored, and each skill learned contributes to your growth as responsible and capable engineers. I hope this newsletter inspires you to dream big and work with determination.

Prof. Dr. S. M. Deokar, Principal JSP



HEAD OF THE DEPARTMENT'S MESSAGE:

It gives me great pleasure to share this message for our department's newsletter. Our goal has always been to provide strong technical education supported by practical exposure and continuous skill development. I appreciate the efforts of our faculty and students in maintaining academic excellence and contributing to various departmental activities. Let us continue to uphold high standards and work together toward achieving greater milestones.



EDITOR'S MESSAGE



Dear Readers,

With great enthusiasm, we present this edition of our newsletter, crafted with the collective efforts of our editorial team, faculty, and students. Each section reflects the energy and spirit of our institute. From technical events to cultural activities, this issue captures the diversity and passion that define our community. We look forward to your continued support and active participation in upcoming editions.

Technical Events and Activities

➤ **Expert Lecture on AD converter**

An expert lecture on AD Converters was conducted on 18/01/2023 by Ms.Swapnali Latake for Digital Techniques students. She explained the of analog -to-digital conversion and different types of ADCs. The session helped students understand practical application in electronic systems. It was an informative and useful learning experience for all.



➤ **Expert Lecture on Big Data And Hadoop**

An expert session on big data and hadoop was held on 10/03/2023 to introduce students to modern data processing technologies. The speaker explained the concepts of big data, its importance, and how hadoop manages large datasets efficiently. Students learned about HDFS, mapReduce, and eral-life application. The session was informative and helped students understand industry-level data handling.



➤ **Expert Lecture On Soft Skill by Gaurav Shrivastava**

An Expert Lecture on soft skills was conducted on 13/02/2023 by Mr. Gaurav Shrivastava. He explained the importance of communication, confidence and professional behaviour in career development. Students learned practical tips for interviews, teamwork and personality improvements. The session was motivating and helped students enhance their overall soft skills.



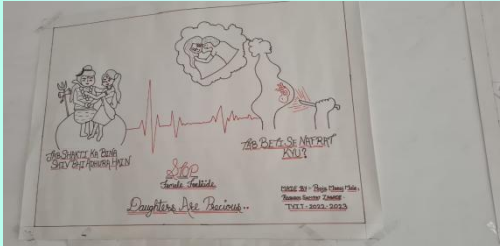
➤ **Expert Lecture on Teamwork by Ramnath Mundhe**

A seminar on Teamwork was delivered by Mr. Ramnath Mundhe, to the Information Technology students on 19/11/2021. With his hand on Professional skills on the presented topic he explained the elements of good teamwork. He also expressed his views on how to develop the trust and support in a team. A good team member help others, use effective communication and be willing to learn new skills. He expresses his views on accommodation of cultural differences in a team. He explained the advantages of working in a team. The entire seminar was conducted in interactive manner. Students enjoyed as it was informative session



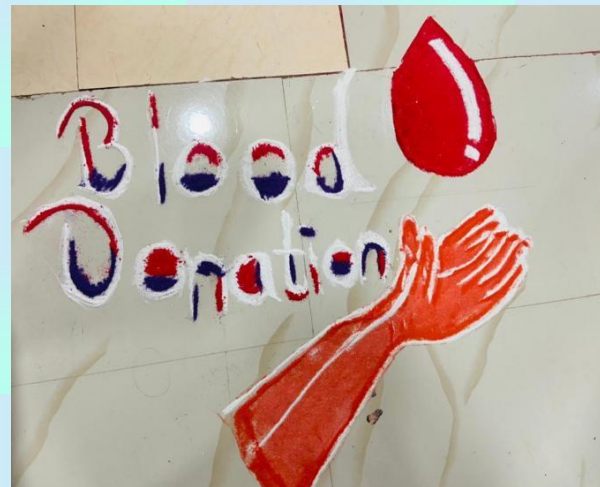
➤ Poster Presentation

On 08th March 2023, SYIF & TYIF students participated in an Industrial Visit, enhancing their practical understanding of industry processes. On the same day, a **Poster Presentation on the occasion of Women's Day** was conducted in celebration of Women's Day, empowering female students with essential safety skills and boosting confidence through hands-on techniques and guidance.



Blood Donation Camp

On 15th March 2023, a **Blood Donation Camp** was organized for SYIF students at Jayawantrao Sawant Polytechnic. Many students and staff actively participated in the noble cause. The camp aimed to raise awareness about the importance of blood donation and contribute to saving lives through voluntary contributions.



Bollywood Day

On 20th April 2023, Our Jayawantrao Polytechnic Hadapsar collage celebrated Traditinal day with great enthusiasm. Students came dressed in beautiful cultural attire representing different states of India. The campus was full of colours, music and joyful m oments. This events helped us appreciates our culture and brought everyone together with unity and pride.



Industrial Visit

➤ **Industrial Visit at E-Infochips Ltd**

Industrial Visit was organized by IT Department on 23/01/2023 for all the students of Jayawantrao Sawant Polytechnic. Industrial Visit was organized at “E-Infochips Ltd, Magarpatta Pune”. Students have gained knowledge of working of software company.



Students' Achievements

Result Analysis Summer-2023

DEPARTMENT TOPPERS

Rank	Name of Student	Class	% Result
1	WALKE ADITYA	TYIF	91.07%
2	PRASAD RIMADEVI JANGALI		86%
3	KUNWAR AYUSH ARUN		84.80%
1	BOTE SUJAY PARSHURAM	SYIF	92.10%
2	DEVKAR SHRIKANT ABASAHEB		91.90%
3	KARAN RAHUL GAIKWAD		88.50%
1	LAVHATE KARTIKI MORESHWAR	FYIF	91.25%
	RANI HARIDAS MATHE		91.25%
2	GOPHANE PRADNYA TATYABA		85.25%
3	PANDYA RISHABH PURVINKUMAR		83.75%

Winner in Project Competition

Name of Project	Details of Competition	Name of the students	State/ National level	Participated / Awarded
IOT Based Weather Monitoring System For smart Agriculture	MIT School of Computing MIT-ADT university, Pune State Level "PROJECT EXPO"-2K23	Bhandwalkar Akshay Walke Aditya Pisal Vinay	State Level	Awarded



Students' Articles

Ethics and responsibilities in IT engineering **by Ms. Kunwar Ayush Arun**

It engineers have significant ethical responsibilities related to public safety, societal impact, and professional conduct. These responsibilities include prioritizing public welfare, maintaining competence, being truthful, respecting intellectual property, and fostering public awareness of technology's effects.

Core ethical principles in it engineering:

Public safety and welfare:

It engineers must prioritize the safety, health, and welfare of the public when designing, developing, and deploying systems. This includes considering the potential impact of their work on individuals and society as a whole.

Competence:

Engineers should only work within their areas of expertise and maintain a high level of professional competence. This involves staying up-to-date with the latest technologies and best practices.

Truthfulness and transparency:

Engineers must be honest and transparent in their work, avoiding any form of misrepresentation or manipulation of information. They should provide accurate information about their work and its potential impacts.

Respect for others:

Engineers should respect the rights and privacy of others, including their intellectual property and confidential information.

Public awareness:

Engineers have a responsibility to educate the public about computing technologies and their potential consequences.

Specific responsibilities:

Avoiding harm:

Engineers should strive to minimize harm caused by their work, including physical harm, mental harm, or harm to data and systems.

Confidentiality and data protection:

Protecting sensitive information and ensuring the security of data is crucial for IT engineers.

Integrity and professional judgment:

Engineers should maintain integrity and independence in their professional judgment, avoiding conflicts of interest.

Professional development:

Continuing professional development is essential for IT engineers to stay current with the latest technologies and maintain their competence.

Honesty and integrity:

Engineers should be honest and trustworthy in their interactions with clients, employers, and the public.

Fairness and non-discrimination:

Engineers should strive to be fair and avoid any form of discrimination in their work.

Whistleblowing:

In situations where there is a risk to the public, engineers have a duty to report potential dangers to the appropriate authorities, even if it means going against their employer or client.

Sustainable development:

Engineers should consider the environmental impact of their work and promote sustainable development practices.

Consequences of unethical behavior:

Loss of public trust: unethical behavior can erode public trust in the engineering profession.

Legal and disciplinary actions: engineers who violate ethical principles may face legal consequences or disciplinary actions, such as revocation of their license.

Damage to reputation: unethical conduct can damage the reputation of both the individual engineer and the profession as a whole.

Ethics and responsibilities in IT engineering
by Mr Sasane Vishal Digambar

Engineering is a valuable and studied profession, which means that engineering activities benefit society as a whole and that engineering abilities require talent and time to perfect. Engineers are required to uphold the highest standards of honesty and integrity as members of this profession (National Society of Professional Engineers, 2007). Engineers must operate with honesty, impartiality, justice, and equity because their work directly and significantly affects the quality of life of everyone. They must also be committed to safeguarding the public's health, safety, and welfare (National Society of Professional Engineers, 2007). With so many engineers in the world, a global code of professional ethics and accountability was developed. It set forth expectations for professional conduct and mandated that engineers abide by the strictest ethical standards. This was done to ensure that the service quality engineers offer is constant across different sectors, nations, methodologies, and practices.

Professional Responsibilities of Engineers

The public's safety, health, and welfare must come first for engineers as they carry out their professional responsibilities.

Engineers must only provide services in their areas of expertise; they must establish their professional reputations via the quality of their work, and they must not engage in unfair competition with other professionals.

Engineers are required to continue their professional growth throughout their careers and to give those engineers under their supervision a chance to do the same.

Engineers must avoid conflicts of interest or the perception of conflicts of interest and behave professionally for each employer or customer as obedient agents or trustees.

Engineers must protect other people's confidential information and intellectual property rights, particularly those of nonprofits and engineering professional associations.

Engineers must avoid any actions that reflect poorly on the profession and only make impartial, genuine statements in public.

When carrying out their professional responsibilities, engineers must take the environment's influence and sustainable development into account.

Unless there is a valid basis to do so under the applicable codes, regulations, and procedures controlling that engineer's ethical conduct, engineers must refrain from seeking a moral sanction against another engineer.