

Department of Information Technology

GOVERNMENT POLYTECHNIC WASHIM

(Under Directorate of technical Education, Maharashtra Government)



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VISION:

"To be the best in providing employable Information Technology Diploma Engineers."

MISSION:

Department of Information Technology Committed to:

- To impart outcome based, value added, quality technical education in the field of Information Technology.
- To enhance employability, entrepreneurship, industry institute interaction.
- To make capable of applying Information Technology knowledge to solve real life problems.
- To inculcate ethical and social values to transform student into good human being

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

- PEO 1: Diploma graduates will analyze, formulate and solve real life problems in professional environment.
- PEO 2: Diploma graduates will become entrepreneur or work in multidisciplinary domain.
- PEO 3: Diploma graduates will update professional abilities by engaging in lifelong learning with ethical values.

PROGRAM SPECIFIC OUTCOMES (PSOs):

- PSO 1 : Modern Information Technology: Use latest technologies for operation and application of information.
- PSO 2 : Information Technology Process: Maintain the information processes using modern information and communication technologies.

From HOD's Desk...



Dear Readers,

It gives me great pleasure to congratulate students, teachers and staff of Information Technology Department, for the publication of this April, 23 edition of newsletter. The world is now converting in the world of AI and IOT. Hence this is one of the most fascinating and vibrant branch of today's technological world. IT diploma engineers and scientists are now widely recognized as an essential source of tools and techniques for advancement in nearly all spheres of human endeavour.

I am delighted to present the latest edition of our IT department newsletter. As we continue to adapt to the ever-evolving landscape of technology, our department remains committed to providing you with the latest news, resources, and insights to support your journey in the world of information technology. In this issue, you'll find updates on upcoming IT events, profiles of our outstanding students and faculty, tips and tricks to enhance your IT skills, and much more. We also encourage you to engage with us on social media, where we regularly share additional IT-related content and updates. We value your feedback, so please don't hesitate to reach out with any suggestions, questions, or contributions for future newsletters. Together, we can continue to explore the exciting world of information technology and its limitless possibilities.

Warm regards

Mr. U. A. Bagade, Head of the IF Department [Government Polytechnic, Washim]

From Editor's Desk...



Dear Readers,

It is indeed a great honor to be the Newsletter Editor for the Information Technology. Department and it is an immense pleasure to launch this edition for April 2023.

Newsletter is believed to serve the purpose of reflecting the inside activities i.e., academics, co-curricular & extra-curricular activity, students and faculty achievements as well as innovation occurring in the department. In the era of engineering and technology this newsletter will motivate the teachers and students

to share their creativity and new ideas with the world and will help in their overall development.

Finally, huge thanks to Shri. Hule sir, Shri. Ghorsade sir, Shri. Umesh Toshniwal Sir, Shri. Umesh Nage Sir, who has contributed by writing the wonderful article without which this newsletter issue wouldn't have been completed. Last but not least, I would like to thank Mr. U. A. Bagade Sir (HOD, IF) for providing me the opportunity to be editor of this newsletter and everlasting support throughout the creation of this edition.

Onkar P. Ghorsade

Lecturer, IF



The rise of artificial intelligence and its impact on various industries.

Artificial Intelligence (AI) is no longer a futuristic concept; it has firmly established itself as a transformative force in today's world. With advancements in machine learning, deep learning, and data analytics, AI is revolutionizing numerous industries, offering innovative solutions, improving efficiency, and driving unprecedented growth.

Here, we explore the rise of AI and its profound impact on various sectors.

1. Healthcare: AI is revolutionizing healthcare by enhancing diagnostics, drug discovery, and patient care. Machine learning algorithms can analyze vast amounts of medical data, improving disease detection and treatment planning. AI-powered robotic surgeries and telemedicine are becoming increasingly common, extending healthcare access to remote areas.

2. Manufacturing: AI-driven automation has improved manufacturing processes, increasing efficiency and reducing costs. Predictive maintenance uses AI to detect equipment failures before they occur, minimizing downtime. Robotics and autonomous vehicles optimize production and logistics.

3. Transportation: AI plays a crucial role in self-driving cars and improving transportation efficiency. It enhances traffic management, reduces accidents, and provides real-time navigation assistance. AI-powered predictive maintenance keeps vehicles and infrastructure in optimal condition.

4. Education: In education, AI enables personalized learning experiences. Adaptive learning platforms adjust content based on individual progress. Natural language processing assists language learning, and AI-driven chatbots provide 24/7 support.

5. Agriculture: AI is modernizing agriculture with precision farming. Drones and sensors collect data on soil conditions and crop health. AI algorithms analyze this data to optimize planting, irrigation, and pest control, leading to increased yields and sustainability.

5. Environmental Conservation: AI aids in monitoring and addressing environmental challenges. It assists in climate modeling, wildlife tracking, and deforestation detection, helping to protect and preserve natural resources.

Challenges and Ethical Considerations:

While AI presents numerous opportunities, it also raises ethical concerns related to bias, privacy, and job displacement. Safeguarding data privacy and ensuring fair and transparent AI algorithms are critical for responsible AI adoption.

Parag Ganesh Umale
IF 3rd Year



The future of remote work and its technological implications.

Remote work has undergone a seismic shift, accelerated by the global pandemic, and is now poised for a dynamic future. As we embrace this new way of working, technological advancements will continue to shape and redefine the landscape of remote work. Here, we explore the future of remote work and the profound technological implications it brings.

1. Enhanced Collaboration Tools:

Virtual Reality (VR) and Augmented Reality (AR): VR and AR will offer immersive collaboration experiences, enabling remote teams to work together in virtual environments, hold virtual meetings, and manipulate 3D models. **Advanced Video Conferencing:** AI-powered video conferencing will provide real-time language translation, facial recognition, and gesture-based controls, making communication more seamless.

4. Remote Workforce Management:

AI-Powered Productivity Tools: AI-driven tools will track employee productivity, engagement, and well-being, offering actionable insights to improve remote work experiences. **Employee Monitoring and Well-being:** Technology will monitor employee well-being, mitigating burnout and ensuring a healthy work-life balance.

5. Automation and AI:

Robotic Process Automation (RPA): RPA will handle routine tasks, allowing remote workers to focus on higher-value activities. **AI-Powered Decision Support:** AI will assist in decision-making processes, providing data-driven insights for remote teams.

6. Connectivity and 5G:

5G Networks: Widespread adoption of 5G will provide faster and more reliable internet connections, enabling smoother remote work experiences, especially for video conferencing and large data transfers. **Satellite Internet:** Advances in satellite internet technology will extend connectivity to remote and underserved areas.

7. Flexible Workspaces:

Virtual Offices: Virtual office platforms will create digital workspaces that replicate physical offices, fostering a sense of presence and collaboration among remote teams.

Co-Working Spaces: The popularity of co-working spaces will continue to grow, providing remote workers with flexible, professional environments.

8. Sustainable Remote Work:

Green Technology: Remote work will drive demand for eco-friendly technology solutions, reducing the carbon footprint associated with commuting and office spaces.

9. Training and Upskilling:

Gaurav Bhaskar Waghmare
IF 2nd Year

School Connect Program

MSBTE sponsored "School Connect program 2023-24" successfully organized & conducted by our department between 01Jan to 31 Jan 2023 in suburban region of Washim District. By this program expert faculties from our department and institute visited various schools for counselling, guiding and creating awareness among 10th class students and their parents about Scholarships, Technical education, various Diploma Courses and their Scopes in future etc. which is helpful to the students for selecting right path (branch) for bright future. The motto of this program is to make our students more skillful which is in line with "Digital India", the vision of our Honorable Prime Minister Shri Narendra Modi.



Celebration of Traditional Day

Indian Culture is unique and it is one of the oldest cultures of the world. Every aspect of Indian Culture is distinctive; way of living, dressing, eating is inimitable. It is very necessary to make our students aware of this rich Indian culture at college level hence in order to make them to follow and respect Indian culture a competition on best traditional outfit was organized in department.



Sports and Cultural Program at Regional Office, Amravati

Sports and cultural program was organised at regional office, Amravati by Hon. Joint director Dr. V. M. Mankar. Faulties from department Shri. M.S. Hule, Shri.R. B. Mahajan and Shri. O. P. Ghorsade participated in events.



Dental Check-Up Camp

Information Technology Department along with NSS and a team of senior dentists led by Dr Vipul Pawar organize a free dental check-up and awareness camp in the college premises. The camp included dental awareness talk, educating students about common dental ailments especially stressing on tooth decay and gum diseases and the measures used to prevent them. The students were made aware about the eating patterns and food choices which can lead to tooth decay.

The young students cherished the chance to interact with the dentists to enquire and gain knowledge about their oral health and maintaining good oral hygiene. The college staff and students thanked the dentists for rendering their selfless service to the institute. NSS coordinator **Shri. Umesh Nage** took special efforts for this drive



Cleanliness Drive

On the occasion of NSS day, the National Service Scheme (NSS) unit of institute organize a cleanliness drive at ST Bus Stand Washim. Under this program, all the students from first year had to participate. The main objective of the cleanliness drive was to address the issues of hygiene, public sanitation conditions, and to create awareness towards cleanliness.

Institute NSS coordinator Shri. Umesh Nage along with his team member Shri. R. G Bilolikar, Shri. B. B Lavhale, Shri. C. D. Ghugare, Smt. R. r. Adhav took special efforts for this drive.



Alumni Meet

Government Polytechnic Washim has organized the Alumni Meet on 04/03/2023 in Gymkhana Hall. The alumni meet is conducted every year in order to reconnect with the Alumni and celebrate their success and various achievements. Alumni get in touch with students and share their expertise and best practices in each field. Institute TPO **Shri. Umesh Toshniwal** and Department Coordinator **Shri. O. P. Ghorsade** readily took up initiative to organize the meet in the guidance of Hon. Principal Dr. B. G. Gawalwad.



Inauguration of Water Cooler

In an effort to provide clean and safe drinking water for every student, one of our prominent alumni Shri. Pathak has donated the water cooler for Electronics and Information technology department. Filter part is donated by Hon. Principal Dr. B. G. Gawalwad and Shri. U. A Bagde (HOD,IF). The entire college staff and Principal profusely thanked alumni and expressed deep appreciation of this gesture



Inter-Branch Cricket Tournament

Electronics and Telecommunication Engineering department organized an Inter-Branch Cricket Tournament. All together 6 teams participated in the tournament. There was the huge crowd of students who had gathered in the playground to cheer their respective teams. Shri. R. G. Takwale and Shri. O. P. Ghorsade coordinates the event in the guidance of sport coordinator Shri. Umesh Nage.



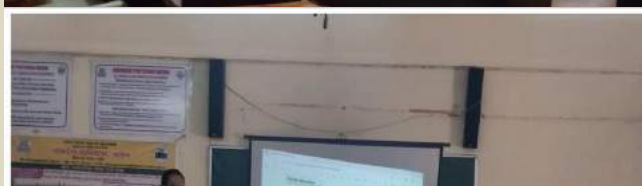
Featured News:

- Conducted workshop on Drone Technology in disaster management under KRA.
- IT department recognized for outstanding contributions to Government Polytechnic Washim.
- Mr. Sanjay S. Gharde awarded P.hD Degree from Jalgaon university.
- Shri. Mangesh S. Hule has completed Forty-two days ***“Foundation Training”*** (August 22 to October 02, 2022) and Shri. Sanjay Shelke has completed one week ***“Refresher Training”*** (10-14 October 2022) organized by YASHADA Pune.
- Shri O. P. Ghorsade has successfully completed a 8 Online module course of NPTEL- Swayam Course conducted by AICTE.

Industry Expert Lectures

Department of Information Technology arranges various industry expert lectures for students and faculties. The objective of expert lectures is to explore particular subject with interaction with industry experts. Expert session provide platform to students to express their ideas and view. Student gets benefit to relate theoretical with practical inputs of field. Series of such session pour an extra enthusiasm to student to give practical approach to their study.

Sr. No.	Topic	Delivered By	Date	Class
01	24 Mar 2023	MS AZURE Cloud	Mr. Baljeet Sing Kalsi	Sr. Software Developer, Hone Trust Financial Company, Toronto, Canada
02	25 Mar 2023	Software development using Agile Methodology	Mr. Sudarshan Mahajan	Technical Lead, Siddhatech Software Pvt. Ltd Pune
03	29 Mar 2023	Soft Skills and Career Opportunities	Mr. Vijay Tathe	MD Micro Spectra Pvt Ltd. Akola
04	29 Mar 2023	Industry 4.0	Mr. Vijay Tathe	MD Micro Spectra Pvt Ltd. Akola
6	Personality Development	Mr. Sagar Hade	15/04/2023	Second Year



Poster Presentation Competition

The inter-branch poster presentation competition was organized by the Department of Electronics and Telecommunication Engineering to encourage the student to come up with their innovative ideas. The objective of the competition was to ignite the fire of imagination and creativity in the students.



Pragati Scholarship by AICTE

To provide encouragement and support to Girl Child to pursue technical education "Pragati Scholarship" has been launched by the MHRD and implemented by AICTE.

Pragati is a scheme aimed at providing assistance for Advancement of Girls participation in Technical Education. The objective of scheme is "Empowering Women Through Technical Education." Efforts taken by Shri Laxman Lonkar results into registration of 107 girls from the institute for this scholarship.



Students Achievement – Campus Placement

The training and placement cell of G. P. Washim organized various training, placement and internship activities for its students in the session 2021-22 and 2022-2023 in which reputed companies conducted their respective placement drives in the College Campus.

List of students placed from the IF Department:

Sr. No.	Name of Student	Company	Package
1	BHOPALE ASHISH GAJANAN	Wipro Limited, Bengaluru	15000rs Stipend under WILP program
2	WALKE AMAR SANJAY		
3	YELANE TEJAS SANTOSH	TATA Power	2.6LPA

Industrial Visits

Department of Information Technology arranges various industrial visits for students and faculties. The objective of an industrial visit is to provide students with an insight into the corporate world. It provides students with a practical real-world perspective on different functions in organization. Industrial visit bridge the gap between classroom theoretical training and practical learning in a real-life environment. The students get to see the best practices opted by different companies for similar work. It provides an opportunity for students to ask questions related to their area of interest.

Sr. No.	Company / Industry	Location	Class
1	FM Radio Vatsgulum 90.8 FM	Washim	Second, and Third Year
2	Visainet Ltd,Washim	Washim	Second and Third Year



Blood Donation Camp

Blood is the most precious gift that anyone can give to another person — the gift of life. A decision to donate your blood can save a life. Donating blood is a vital way to help save lives. Along with helping save lives, there are several reasons why donating blood is important. A single donation can save three lives. One blood donation provides different blood components that can help up to three different people.

Information Technology Department along with NSS team organized a massive blood donation camp in our campus in association with District General Hospital Washim. **Shri. Umesh Nage** Sir took special efforts for event.



TPO TALKS:



Dear Readers, Hope all of you are good!!!

The training and Placement Cell is one of the integral part of our institute. The T & P Cell works diligently to provide place for students in the industrial world. Here, I took this opportunity to let you know what we did in last two years with the help of my cell members and the support of our principal.

TPO cell works in the following area:

- ***Placement activities for final year students.***
- ***6-week Industrial Training for students at the end of 4th Sem.***
- ***Organization of motivational, Personality Development and Industrial Expert Lectures and Industrial Visits.***
- ***Organization of Faculty Development Trainings.***

In A.Y 2021-2022, 15 companies visited to our institute and offer 101 jobs to interested students of all branches with highest package of 2.84 LPA. In A.Y 2022-2023, till 13 companies visited to our institute and shortlist 90 students with highest package of 3.75 LPA, yet some companies are in pipeline.

Six-week Industrial Training at the end of 4th semester may need to restructure as per guidelines laid by MSBTE. Hope all the departments will emerge with new ideas and concept to fulfill this curriculum requirement. Along with placement, Institute is having 36 active MOUs with various industries and construction companies in local region.

Shri. U. R. Toshniwal

LME and Training & Placement Officer
Government Polytechnic, Washim

Shining Alumni:



**SDE-Oracle
Bangalore**

Mukta Joshi **SDE-Oracle**

Our alumni uphold a legacy of excellence throughout their academic journey, and we're delighted to introduce one of our shining alumni, Mukta Joshi. Mukta completed her diploma in Information Technology Engineering in 2018 and subsequently pursued her graduation at RCOEM Nagpur in 2021.

Following her graduation, Mukta's exceptional talents garnered significant recognition in the professional world. She received more than 15+ offers from top-tier multinational companies, including LTI, Capgemini, TCS, Wipro, Deloitte, Infosys, HCL etc. Her remarkable skills and dedication led her to become a finalist in Smart India Hackathon (Software Category). After gaining valuable professional experience over the course of a year, Mukta achieved a remarkable milestone by getting offers from FAANG companies, including Oracle India, Amazon India, and Walmart. Her journey didn't stop there she also made a significant impact in the field of education.

Mukta contributed to the ed-tech industry as an educator, accumulating over 4 years of teaching experience (Coding and Development). During this time, she successfully guided more than 2000+ students on their paths to securing their dream jobs. Furthermore, Mukta embarked on an entrepreneurial journey by starting her own startup, dedicated to providing training and mentorship to both freshers and experienced professionals, helping them to secure coveted job opportunities.

Thank You

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