**T H E   D I G I T T**

## BRAHMDEVDADA MANE POLYTECHNIC

# DEPARTMENT OF COMPUTER TECHNOLOGY

### ❖ About Department

Computers have revolutionized not only data processing and storage, but also the quality of life, communication, manufacturing, and transportation, PCs, laptops, Internet and teleconferences have become household commodities...

The department has well equipped Terminal with the latest configuration & software packages. The department Terminals are interconnected with (LAN).

All the facilities are assisting in focusing the attention to increase the technical as well as theory knowledge of student

# Vision and Mission

## Vision

To become a center of excellence by producing skilled and competent computer engineers to serve the society.

## Mission

M1: To impart skill based technical education by providing suitable academic environment in the field of Computer Technology.

M2: To establish effective learning environment through industry institute interaction.

M3: To produce responsible individuals by imparting good social and ethical values.

# HOD DESK



Prof. Pawar R. R.
M. Tech (CSE)
Head Computer Technology

Department of Computer Technology in BMP is one of the latest branches of diploma in engineering in modern era of technology. The technical education department aims towards making available the trained and technically qualified hands to serve the industry and society. We are working hard to improve upon the quality of education. The department organizes workshops, expert lectures, seminars, industrial visits and extra cocurricular activities from time to time to provide out students and facilities to interact students with peers from across the country. Our students are trained to develop a balanced personality and will prove to be an invaluable assets to an organization.

# EDITOR DESK

It is a great pleasure to bring you the Newsletter. The current Newsletter highlights the activities and achievements of faculty, staff and students for the past year. The aim of this Newsletter is to circulate information about our department, and we hope that the readers find the issue informative and useful. I am thankful to the faculty staff and students for their valuable inputs and welcome suggestions and feedback.

Mrs. Ghadge S. A.
(Lect. BMP CM)

# MAJOR EVENTS

## BRAHMASTRA 2K25: Blind C



BRAHMASTRA 2K25 – a state level technical activity events organized by Brahmdevdada Mane Polytechnic, Solapur. The BMP's Computer Technology department also organized **BLIND C-PROGRAMMING** competition under the Brahmastra 2k25 event on 21$^{st}$ March, 2025. 300 students were participated in this state level event. After inauguration ceremony the Blind C competition started. Prof. Kirte S. S. was invited as judge for this event. Three rounds were conducted under this competition. Mr. Pratik Matthe won first prize, Mr. Prem Lohar won second prize and Miss Vaishnavi Bhosale won third prize.



## TARANG 2K25

**Our institute was organized a cultural fest named TARANG 2K25.**
**The inauguration ceremony was done under the presence of Secretary Mrs. Jayashree Mane, Principal Dr. Shrikant Joshi. Students from Computer Technology department participated in various acts and also some active students shown interest in anchoring of this program and they done anchoring very well.**

# Entrepreneurship Development Program



The Department of computer Technology & other departments organized a Entrepreneurship Development Program for all departments final year students on 11th March to 13th March 2025, at Brahmdevdada Mane Polytechnic, Seminar Hall. On first day inauguration of function had been done by Guest Mr. Kamatkar Amit, our principal Dr. Joshi S. B., Mechanical department HOD Prof Fulari S, S. and Program Co-Ordinator Prof. Gaikwad R. B.

After inauguration function Mr. Kamatkar Sir had given the idea about entrepreneurship and some meaningful definitions of career.

On second day, Mr. Madhusudan Buthada Sir guided our students about entrepreneurship development. Computer Department HOD Prof. Pawar R. R felicitate to Buthada Sir. He is a successful entrepreneur.

On third day, the interview session was arranged by EDP Committee members of BMP. Mr. Sangmeshwar Andeli Sir was invited for this interview session. This interview session had taken by Prof. Jadhav N. F.

# FACULTY ACHIEVEMENTS

## Prof. Pawar R. R.

Published paper in International Journal of Creative Research Thoughts (IJCRT) entitled **E-FARMING** ISSN: 2320-2882

## Prof. Patil S. A.

Published a book titled **"TENSORFLOW LATEST TECHNOLOGY"** ,in book a prominent open-sourse machine learning framwork, e-ASIN: B0F9SZLGT8, 827 Series, Volume 1 ,Book 387,406.

## Prof. Ghadge S. A.

Published paper in International Journal of Innovative Research in Technology (IJIRT) entitled Minimizing Data Access Time in Cloud Computing : A User Profile Based Approach

## Prof. Pawar M. D.

Published paper in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) entitled Revolutioning IOT through 5G Connectivity. E-ISSN: 2582-5208

## Prof. Gaddam S. A.

Participated 2 days national conference titled National Conference on Interdisciplinary Advances in Sustainability & Technology organized by Shivaji University, Kolhapur and present paper on Enhancing Antenna Desugn through stacked Machine Learning Models for S11 Prediction

## Prof. Yalgonde O. K.

Published paper in International Journal of Prograssive Engineering Management and Science (IJPREMS) entitled Sign Language Recognition ising CNN.

# BLOOD DONATION CAMP

On the occasion of Birthday of our president Hon. Dilip Mane Sir, our institute had organized BLOOD DONATION CAMP under the NSS REGULAR ACTIVITY of academic year 2025-26. The secretary Mrs. Jayashri Mane, Campus Director Prof. Rahul Mane and Principal Dr Shrikant Joshi were present for the inauguration of blood donation camp.

After inauguration interested staff donated their blood. Mr. Swapnil Jadhav and Mr. Sourabh Patil staff from computer Technology also donated their blood.

# EXPERT TALK



Computer Technology Department organized several notable expert lectures. On 24/01/2025 our department organized Expert lecture on SDLC & Industry Experience. Mr. Omkar Zende covered topics that: SDLC Methodology, Real world case studies, Emerging Trends in software development, Career path and opportunities in the software industry etc.

Also on 06/03/2025 our department organized expert lecture on AI & Android App Development. Mr. Vaibhav Bachuwar was invited for this lecture. He Covered Introduction to AI, Android App Development, AI in Android Application And Interactive Q & A Session.





Computer Technology Department also organized expert lecture Database Project Management. Mr. Bahubali Kandale was invited for this lecture. He discussed the various phases of a typical database project, also discussed Project management Methodologies, Key consideration in Database Project management and tools & Technologies. Mr. Yalgonde O. K. was activity incharge of these expert lectures.

# INDUSTRY INTERACTION

On 07/02/2025 third year Computer Technology students visited to **Shree Vidya Info Technology** to gain the Network and Information Security Concepts. This visit provided valuable knowledge and were attended by students from various disciplines.







Students from third year Computer Technology Department visited to **Katare Informatics** on 23/08/2024. This industrial visit provided valuable and practical knowledge of JAVA programming development.

The Computer Technology department arranged industry visit at **Gemburg Pvt. Ltd for** SYCM class on 05/03/2025. The industrial visit provided practical insights into UI/UX applications. Students gained valuable hands-on experience and knowledge.



70 students of third year Computer Technology department visited to the **UltraTech Cement Company Ltd.** on 20/09/2024 which was coordinated by the computer technology faculty named Prof. Yalgonde O. K. and Prof. Patil S. A. Students understood concepts of management subject from this visit.

# STUDENT ACHIEVEMENTS



## WISOTECH - 2025

First year student Abhishek Mashale and team designed and developed Smart Car and presented it in Robonace event of WISOTECH – 2025 at V.V.P. Institute of Engineering & Technology. He and his team presented well and won 2nd prize in this technical symposium.

## WISOTECH - 2025 & TECHNOVATION 2025

First year students named Abubakar Ashraf Ali Rangrez, Rehan Hamid Patil and Saurav Bharat Jadhav prepared a project on Wireless Dynamic Charging System. The team presented this project in a national level project competition conducted under WISOTECH – 2025 at V.V.P Polytechnic, Solapur. This competition was held on 29th March, 2025. The Rangrez taken initiative for this project and the team secured first prize for this project. Also Rangrez and team has participated in the divisional round of Technovation 2025, held at SVERI's Collage of Engineering, Pandharpur, on 19th April 2025. We appreciate the efforts and contributions in showing the team's innovative project and technical skills.



## BLIND C Competition Winner



First year student Pratik Matthe participated in BLIND C which was held under Brahmastra 2K25 on 21st March, 2025 organized in our institute named Brahmdevdada Mane Polytechnic, Solapur. He utilized his own programming knowledge and secured first prize in this competition.

# STUDENT ACHIEVEMENTS

First year student Aditi Kulkarni, secures out of out marks i.e 100/100 marks in second semesters Basic Mathematics subject which is held by MSBTE in Summer 2025 examination.



After declaration of Summer 2025 MSBTE exam. The subject teacher named Mrs. Purude felicitate to Aditi for encouragement and appreciation of her success.

The students named Nikhil Gaikwad, Pratik Matthe and Suyash Patil has successfully completed the course **Digital Productivity with AI** which is offered by Passport to Earning (P2E) Skills on July 23, 2025. Pratik secured 100%, Nikhil secured 90%, and Suyash secured 85% marks in the exam of course.

# Block chain: The Future of Secure Digital Transactions



Blockchain started in 1991 as a way to store and secure digital data. Blockchain is an open ledger that several parties can access at once. One of its primary benefits is that the recorded information is hard to change without an agreement from all parties involved. IBM explained that each new record becomes a block with a unique, identifying hash. Linking the blocks into a chain of records forms a blockchain. Bitcoin cryptocurrency uses blockchain technology.

Blockchain is an immutable digital ledger that enables secure transactions across a peer-to-peer network. It records, stores and verifies data using decentralized techniques to eliminate the need for third parties, like banks or governments. Every transaction is recorded and stored in a block on the blockchain. Each block is encrypted for protection and chained to the preceding block, establishing a code- based chronological order. This means that data stored on a blockchain cannot be deleted or modified without consensus of a network.



**Revati Shitole (TY CM)**

# Cybersecurity: Why Strong Passwords Matter?

 In today's digital world, passwords are the first line of defense against cyber threats. Whether it's your email, online banking, or social media accounts, a weak password can lead to data breaches, identity theft, or financial loss.

▲The Problem with Weak Passwords

Most people use simple, easy-to-remember passwords like 123456, password, or even their names and birthdates. Unfortunately, these are the first guesses hackers try in a cyberattack using techniques like:

Brute Force Attack: Tries all possible combinations until the correct password is found. Dictionary Attack: Tries common words and phrases.
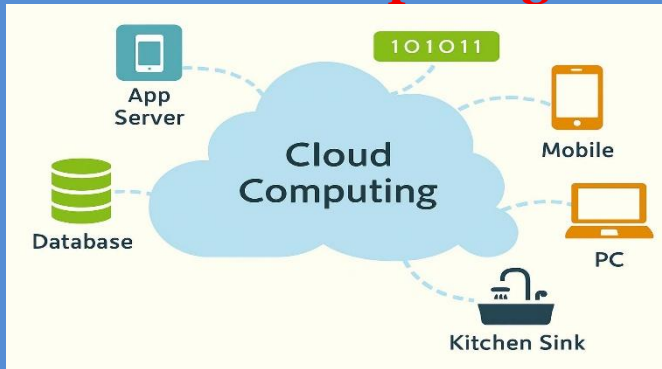Credential Stuffing: Reuses stolen passwords from other breached websites.

In the 2013 Adobe data breach, over 150 million user credentials were leaked—many users had weak or repeated passwords, making it easier for attackers to gain access to multiple accounts.

A strong password isn't just a recommendation—it's a necessity. As cyber threats become more sophisticated, building better password habits is one of the simplest and most effective ways to protect your digital life.



**Monika Patil**
**TYCM**

# "Cloud Computing: Shaping the Future of Technology."



"Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g. networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction."

**Software as a Service (SaaS):-** SaaS is defined as software that is deployed over the internet. With SaaS, a provider licenses an application to customers either as a service on demand, through a subscription, in a"pay-as-you-go" model, or (increasingly) at no charge whenthere is opportunity to generate revenue from streams otherthan the user, such as from advertisement or user list sales.

**Cloud Infrastructure as a Service (IaaS):-** Where regulatory compliance makes the Offshoring or outsourcing of data storage and Processing difficult Where the highest levels of performance are Required, and on-premise or dedicated hosted Infrastructure has the capacity to meet the Organization's needs

**Platform as a Service (PaaS):-** The capability provided to the consumer is to deploy onto the cloud infrastructure consumer-created or Acquired applications created using programming languages, libraries, services, and tools supported by the Provider.
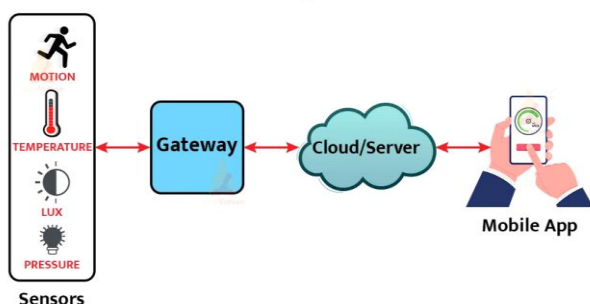
Nikhil Gaikwad
SYCM

## IOT : Connecting Everything, Emproving Everyone

The **Internet of Things (IoT)** refers to a network of physical devices that are connected to the internet and can collect, exchange, and act on data without direct human involvement. These devices include everyday objects like smartphones, smartwatches, home appliances, cars, and even industrial machines that are embedded with sensors, software, and other technologies. The main goal of IoT is to create a smarter and more efficient environment by allowing devices to communicate with each other and make intelligent decisions. For example, a smart thermostat can learn your daily routine and automatically adjust the temperature to save energy. IoT is widely used in areas such as smart homes, healthcare, transportation, agriculture, and industrial automation, making life more convenient, efficient, and connected.



Pratik Matthe
SYCM

The Internet of Things (IoT) works by connecting physical devices embedded with sensors and software to the internet, allowing them to collect and exchange data. These devices gather real-time information from their environment, such as temperature, motion, or location, and send it over a network using technologies like Wi-Fi, Bluetooth, or cellular data. Once the data reaches a central system or cloud platform, it is processed and analyzed to make intelligent decisions or trigger specific actions. For example, a smart irrigation system in agriculture can automatically water plants when soil moisture levels drop. Users can interact with IoT devices through apps or dashboards, enabling remote monitoring and control. This seamless communication between devices, networks, and users makes IoT a powerful tool for automation, efficiency, and smart living.

# OUR TOPPERS

**SUMMER 2024-25**

1st     2nd     3rd

**TY »»**

| Ranjit Jadhav | Vaishnavi Mote | Nandini Charate |
|---|---|---|
| 91.14% | 89.35% | 88.17% |

**SY »»**

| Vivek Havale | Aishwarya Mangalaram | Rutuja Pasale |
|---|---|---|
| 92.35% | 91.18% | 86.52% |

**FY »»**

| Aditi Kulkarni | Snehal Pawar | Shreya Yamgar |
|---|---|---|
| 87.35% | 84.23% | 82.70% |

15th august HAPPY INDEPENDENCE DAY