# Tech World

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# NEWSLETTER

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## Department of
## Computer Hardware & Maintenance
## Diploma

**Hon. Dr. P. V. Kadole**
Director RIT Rajaramnagar

**Hon. Dr. H. S. Jadhau**
Dean Diploma
RIT, Rajaramnagar

# Mr. S. B. Thorat
HOD computer Hardware
& Maintenance

# Tech World

## EDITOR'S DESK

### Mr. C. A. Kulkarni
Lecturer
Department of
Computer Hardware & Maintenance

It is a matter of great pride and privilege for me being a part of Departmental Newsletter "TechWorld 2023-24". Department of Computer Hardware & Maintenance provide a platform for eve- ry students to develop their learning skill. The main aim of department is to develop students for Re- searching software. Designing and testing computer hardware components, such as processors, circuit boards, memory devices and routers. Writing and testing software for mobile devices and computers. Designing, setting up and testing networks.

## Editorial Board

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**Mr. S. B. Thorat**
HOD computer Hardware & Maintenance
**Ms. Salunkhe S. D**
**Mr. Khade. P. P**

# Tech World

## Department Vision

To develop computer hardware, networking, software technocrats by emphasizing practical skills and professional competency.

## Department Mission

• Impart technical education and knowledge through quality training, hands on experience inthe field of computer hardware and maintenance.

• To nurture students for higher studies in reputed institutes.

• To nurture students for higher studies in reputed institutes.

• To inculcate ethical & professional values among students with societal and environmental concern.

## Program Education Objectives (PEO's)

PEO 1 Provide socially responsible, environment friendly solutions to engineering related broad-based problems adapting professional ethics.

PEO 2. Adapt state-of-the-art Computer engineering broad-based technologies to work in multidisciplinary work environments.

PEO 3. Solve broad-based problems individually and as a team member communicating effectively in the world of work.

## Program Outcomes (PO)

PO 1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the computer engineering problem

PO 2. Problem analysis Identify and analyze computer engineering problems using codified standard methods.

PO 3. Design/development of solutions: Design solutions for well-defined technical problems and assist with the design of computer engineering components or processes to meet specified needs.

PO 4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements related to computer engineering.

PO 5. Engineering practices for society, sustainability, and environment: Apply appropriate technology in context of society, sustainability, environment, and ethical practices.

PO 6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities

PO 7. Life-long learning: Analyze individual needs and engage in updating in the context of technological changes.

## Program Specific Outcomes (PSO's)

PSO 1 Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.

PSO 2 Computer Engineering Maintenance: Maintain computer engineering and Computer Network related software and hardware systems.

## HOD DESK

### Welcome to the Department of Computer Hardware and Maintenance

**Mr. S. B. Thorat**

HOD computer Hardware & Maintenance

Computer Hardware and Maintenance Department Started in the year of 2021 with intake 30. Department has well equipped laboratories with latest high-tech hardware as well as software facilities. We are always engaged in the activities for overall development of our students with various aspects like technical education, self-motivation, ethics, and personality. We motivate students to pursue higher studies in reputed institute.

Department consists of faculty, staff and students committed to excellence and success. With outcome-based teaching & learning practices, we make students focus on core domain areas of computing, programming, analytical skills, and soft skills. Department has well equipped laboratories with latest high-tech hardware as well as software facilities. We are always engaged in the activities for overall development of our students with various aspect setechnical education, self-motivation, ethics, and personality. We motivate students to pursue higher studies in a reputed institute.

## Training/ Workshop/ Seminar / Conference attended by Faculty

| Name of faculty/staff | Details of Training (Industrial/Content updating/Soft/Any Other ) | Duration Of Training | Organization Body | Organizing Institute | Relevance with PEO's, PO's and CO with course code (Only Nos.) |
|---|---|---|---|---|---|
| Mr. S. B. Thorat | Five Days Short Term Training Program on "Recent Trends in AI Tools" | 24/07/2023 to 28/07/2023 | Department of IT, D. Y. Patil College of Engineering, Akurdi, | D. Y. Patil College of Engineering, Akurdi, | PEO'5 |
| | ISTE Approved One Week Faculty Development Program on "The Role Of Teachers in NEP 2020 Implementation " with Grade 'A' | 21/08/2023 to 25/08/2023 | Department of IT, D. Y. Patil College of Engineering, Akurdi, | D. Y. Patil College of Engineering, Akurdi, | PEO'5 |
| | One week Online Faculty Development Programme on "GENERATIVE AI USING CHATGPT" | 15/01/2024 to 19/01/2024 | Department of Information Technology, AISSMS IOIT, Pune. | AISSMS IOIT, Pune. | PEO'5 |
| | 10 Hours National Faculty Development Program on "Business Analytics" | 05/02/2024 to 09/02 2024. | ExcelR Edtech Pvt. Ltd. | AISSMS College of Engineering, SJC Institute of Technology and Matrusri Engineering | PEO'5 |

| | | | | | |
|---|---|---|---|---|---|
| Mr. C.A. Kulkarni | Three Day's Faculty Development Program on "EDA Tools & Virtual Lab" | 24/08/2023 to 26/08/2023 | Shri Siddheshwar Women's Polytechnic, Solapur | Electronics and Telecommunication Engineering of Shri Siddheshwar Women's Polytechnic, Solapur | PEO'5 |
| | VLSI to system design: Silicon to End application Approach | 31/07/2023 to 04/07/2023 | AICTE Arm Education STMicroelectronics | AICTE Arm Education STMicroelectronics | PEO'5 |
| | Three Days Faculty Development Program on "Application of Arduino and IoT " | 05/03/2024 to 07/03/2024 | AICTE-RIT IDEA Lab | Department of Electrical Engineering(Diploma) at RIT, Islapmur | PEO'5 |
| Ms. V.S. Waidande | One week online FDP "AI Digital Content Creation" | 11/12/2023 to 16/12/2023 | Shivaji University Kolhapur & in association with Cyber Sanskar. | Department of Computer Science and Engineering, Aher | PEO'5 |
| Ms. S. D. Salunkhe | One week Online Faculty Development Programme on "GENERATIVE AI USING CHATGPT" | 15/01/2024 to 19/01/2024 | Department of Information Technology, AISSMS IOIT, Pune. | AISSMS IOIT, Pune. | PEO'5 |
| | 10 Hours National Faculty Development Program on "Business Analytics" | 05/02/2024 to 09/02 2024. | ExcelR Edtech Pvt. Ltd. | AISSMS College of Engineering, SJC Institute of Technology and Matrusri Engineering College | PEO'5 |
| Mrs. S. S. Patil | 10 Hours National Faculty Development Program on "Business Analytics" | 05/02/2024 to 09/02 2024. | ExcelR Edtech Pvt. Ltd. | AISSMS College of Engineering, SJC Institute of Technology and Matrusri Engineering College | PEO'5 |

# rit Tech World

## New MOU's Signed with Industry (2023-24)

1.MOU Dated On 18/10/2023
Techspot Infotech, Sangli.
Mr. Avinash Maruti Sakat
CEO, Techspot Infotech. And Rajarambapu Institute
of Technology, Rajaramnagar

## Expert Lectures



Expert lecture on Capstone project selection and synopsis writing workshop



Expert lecture on Database Management System



Expert lecture on Mobile Application Developmen

## Industrial Visits



Industrial visit in SIGA System Private Limited, Pune



Industrial visit in Tangentia India Technologies Private Limited, Goa

## SY Rankars

1 st — Samiksha V. shinde 86.53%

2 nd — Shrutika S. Thorat 86.30%

3 rd — Shruti N. kore 85.45%

## TY Rankars

1 st — Talap Harsravardhan K. 87.79%

2 nd — Make Govind R. 87.27%

3 rd — Tuoke Om A. 82.57%

## Tech World

### Events Organized by Department....



### Engineers day celebration



### Parents Meeting

### Achievement of Department :



Mr. Harshwardhan Talap from TY HA secured 1st Rank in Techno Showdown 2nd Rank In C-Quizard at State Level Technical Symposium Technovation 2K24' organized by Electronics and Telecommunication Department at Government Polytechnic Karad



Tanuja Jatte and Rigveda Jatte in 2nd Year Computer Hardware & Maintenance have Secured 2 nd rank at presentation pinnacle at state level held at Gp karad



Mr. Harshwardhan Talap and Mr. Gonvid Hake TY Diploma Computer Hardware and Maintenance (HA) Students secured First Ran in the state level event Techno Fest - Let's Code (Coding Competition) , organized by Diploma Computer Engineering Department at Ashokrao Mane Polytechnic, Vathar Tarf Vadgaon.



Rugweda Jatte and Tanuja Jatte in 2nd Year Computer Hardware & Maintenance have bagged 2nd rank 🥈 in State Level Thesis Presentation "Reflex- 2024" conducted through Ashokrao Mane Group of Institutes, Vathar, Kolhapur.



Tanuja Jatte and Rigveda Jatte in 2nd Year Computer Hardware & Maintenance have bagged 2nd rank in State Level Thesis Presentation "Reflex- 2024" conducted through Vastu RIT civil Department

## Mr. Prathamesh Khade
### S Y Computer Hardwear
### A. Y. 2023-24

# Article on History of the Computer:

## introduction:

While today we use computers for both work and play, the computer was actually created for an entirely different purpose. In 1880, the population of the United States had grown so large that it took seven years to formulate the results of the U.S. Census.So, the government looked for a faster way to get the job done, which is why punch-card computers were invented that took up an entire room. While that's how the story starts, it's certainly not where it ends. Let's explore everything that happened leading up to that, in between, and after.

## Revolution in Computers:

1946: Mauchly and Eckert left the University of Pennsylvania and obtained funding from the Census Bureau to build the UNIVAC. This would become the first commercial computer for business and government use.

1950: Built in Washington, DC, the Standards Eastern Automatic Computer (SEAC) was created, becoming the first stored program computer completed in the United States. It was a test-bed for evaluating components and systems, in addition to setting computer standards.

1953: Computer scientist Grace Hopper develops the first computer language, which is eventually known as COBOL, that allowed a computer user to use English-like words instead of numbers to give the computer

instructions. In 1997, a study showed that over 200 billion lines of Instagram COBOL code were still in existence.

1981: Not to be outdone by Apple, IBM releases their first personal computer, the Acorn, with an Intel chip, two floppy disks, and an available color monitor.

1982: Instead of going with its annual tradition of naming a "Man of the Year", Time Magazine does something a little different and names the computer its "Machine of the Year". A senior writer noted in the article, "Computers were once regarded as distant, ominous abstractions, like Big Brother. In 1982, they truly became personalized, brought down to scale, so that people could hold, prod and play with them."

1983: The CD-ROM hit the market, able to hold 550 megabytes of pre- recorded data. That same year, many computer companies worked to set a standard for these disks, making them able to be used freely to access a wide variety of information.

1984: Apple launches Macintosh, which was introduced during a Super Bowl XVIII commercial. The Macintosh was the first successful mouse- driven computer with a graphical user interface. It sold for $2,500.

1985: Microsoft announces Windows, which allowed for multi-tasking with a graphical user interface. That same year, a small Massachusetts computer manufacturer registered the first dot com domain name, Symbolics.com.1986: Originally called the Special Effects Computer Group. Pixar is created at Lucasfilm. It worked to create computer-animated portions of popular films, like Star Trek II: The Wrath of Khan. Steve Jobs purchased Pixar in 1986 for $10 million, renaming it Pixar. It was bought by Disney in 2006.

1990: English programmer and physicist Tim Berners-Lee develops HyperText Markup Language, also known as HTML. He also prototyped the term WorldWideWeb. It features a server, HTML, URLs, and the first

browser. 1991: Apple releases the Powerbook series of laptops, which included a built-in trackball, internal floppy disk, and palm rests. The line was discontinued in 2006.

1993: With an attempt to enter the handheld computer market, Apple releases Newton. Called the "Personal Data Assistant", it never performed the way Apple President John Scully had hoped, and it was discontinued in 1998.

1995: IBM released the ThinkPad 701C, which was officially known the Track Write, with an expanding full-sized keyboard that was comprised of three interlocking pieces.

2007: Apple released the first iPhone, bringing many computer functions to the palm of our hands. It featured a combination of a web browser, a music player, and a cell phone -- all in one. Users could also download additional functionality in the form of "apps".

2008: Apple releases the MacBook Air, the first ultra notebook that was a thin and lightweight laptop with a high-capacity battery.

2009: Microsoft launched Windows 7.

2010: Apple released the iPad, officially breaking into the dormant tablet computer category. This new gadget came with many features the

iPhone had, plus a 9-inch screen and minus the phone. Computers from 2011-present day

2011: Google releases the Chromebook, a laptop that runs on Google Chrome OS.

2012: On October 4, Facebook hits 1 billion users, as well as acquires the image-sharing social networking application Instagram.