

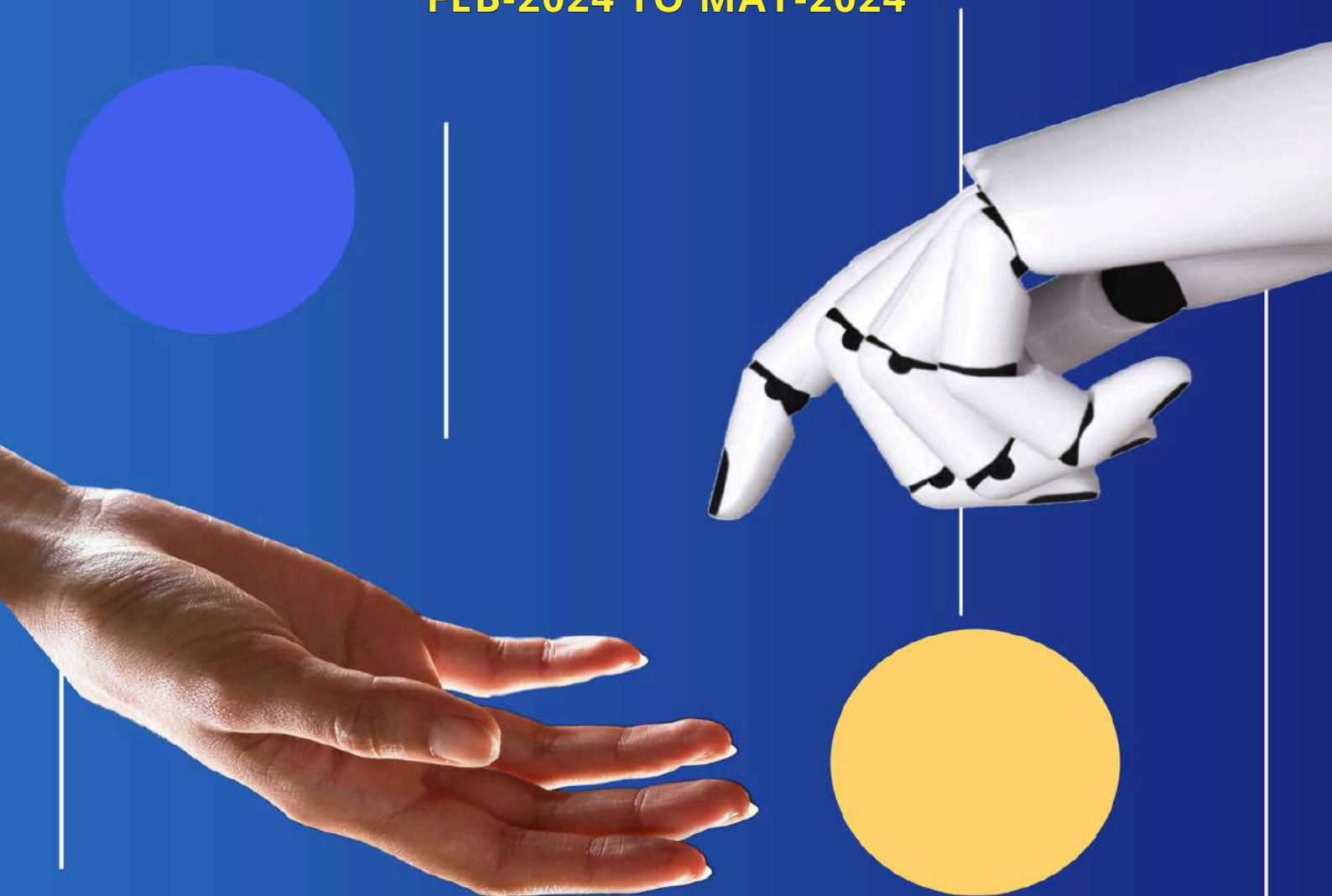


**R. C. PATEL
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute

**Approved By AICTE, New Delhi and Govt. of Maharashtra (DTE: EN - 5172)
Accredited by NAAC 'A' Grade, Bangalore.**

Department of Computer Engineering
FEB-2024 TO MAY-2024



The CompVoice

News Letter for A.Y. 2023-24

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R. C. Patel Institute of Technology
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Department of Computer Engineering

Vision of the Institute

Fostering technical excellence through ethics, sustainable education, innovation and research.

Vision of the Department

To provide high quality Computer Engineering education with socio-moral values.

Mission of the Department

M1 To provide state-of-the-art ICT based teaching-learning process.

M2 To groom the students to become professionally sound computer engineers to meet emerging needs of industry and society.

M3 To make the students employable professionals by inculcating ethical values.

Program Educational Objectives (PEOs) of the Department

PEO1 Graduates will have technical proficiency, lifelong learning skills to become a professional, entrepreneur and leader.

PEO2 Graduates will function effectively in diverse cultural and professional environments, respecting societal perspectives and inclusive practices.

PEO3 To foster ethical and social values to be socially responsible human being.

Program Specific Outcomes (PSOs)

PSO 1 Apply programming principles, algorithms, and data structures to design efficient software solutions and intelligent systems using structured, object- oriented, and emerging technologies.

PSO 2 Design, develop, and deploy responsive web and mobile applications integrated with databases and cloud platforms, leveraging modern frameworks and tools for digital transformation.



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From the Director's Desk



Dear Students, Faculty Members, Staff, Parents, and Esteemed Stakeholders,

I am pleased to reflect on the Academic Year 2023–2024, which marked steady academic progress and continued commitment to quality education at R. C. Patel Institute of Technology, Shirpur.

Throughout the year, the institute remained focused on promoting academic excellence, innovation, and professional ethics. Our dedicated faculty members played a key role in delivering effective teaching and mentoring, while continuously enhancing their academic and professional competencies.

Students actively participated in academic and co-curricular activities, which encouraged skill development, teamwork, and leadership. These experiences complemented classroom learning and helped prepare them for future professional challenges.

We also continued efforts to strengthen industry interaction and promote skill-oriented learning, ensuring our students are well-prepared for a dynamic and competitive environment.

I sincerely appreciate the efforts of our faculty, staff, students, and the continued support of parents and stakeholders. Let us move forward with confidence and determination to achieve greater milestones in the years ahead.

Warm regards,

Dr. J. B. Patil

Director

R. C. Patel Institute of Technology, Shirpur



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From the HOD's Desk



It gives me great pleasure to share a brief reflection on the activities and progress of the Department of Computer Engineering during the Academic Year 2023–2024.

Throughout the year, the department remained focused on promoting academic excellence, technical competence, and continuous learning. Through various academic initiatives, technical events, workshops, and student activities, we encouraged the development of problem-solving skills, innovation, and professional readiness among our students.

The consistent efforts of our faculty members played a vital role in maintaining high academic standards and guiding students toward holistic development. I sincerely appreciate the active participation and dedication of our students, which contributed significantly to the department's achievements.

I extend my heartfelt thanks to the faculty, staff, and students for their commitment and teamwork. I am confident that our collective efforts will continue to strengthen the department and prepare our students to meet future technological challenges with confidence.

With best wishes,

Prof. Dr. Rajnikant B. Wagh

Head, Department of Computer Engineering

R. C. Patel Institute of Technology, Shirpur



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Editorial Board Message



Dear Readers,

I am delighted to present the Department Magazine of Computer Engineering for the academic year 2023–24. The magazine reflects the department's continuous efforts to nurture technical competence, creativity, teamwork, and effective communication among students.

Throughout the year, students actively engaged in academic activities, project development, technical writing, and skill enhancement initiatives. The content presented in this issue highlights student contributions in areas such as emerging technologies, innovation, and professional development, aligning with the principles of outcome-based education.

I extend my sincere gratitude to the student editors, contributors, and faculty members whose collective efforts made this publication possible. I hope this magazine serves as a source of motivation for students to pursue excellence, lifelong learning, and ethical professional practices.

Prof. Vipul D. Punjabi

Editor

Assistant Professor

Department of Computer Engineering

Editorial Board Student Member



Nikita Anil Sonawane
Member



Yash Suhas deokar
Coordinator



Chetan Dipak Patil
Member



R. C. Patel Institute of Technology
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Faculties Achievements



Best Paper Award DPSID-2024

Ms. Jayashri Sonawane

Received the **Best Paper Award** at the **National Conference on Digital Public Infrastructure & Sustainable Development (DPSID-2024)** held on **15–16 March 2024** at SVKM's NMIMS, Indore, for her paper on cloud-based large-scale sentiment analysis, sponsored by ICSSR, Government of India.

Ms. Puja Dipak Saraf

Dr. Jayantrao Patil, and Dr. Nitin Patil presented their research paper titled “Feature Extraction and Machine Learning in Plant Disease Detection: A Survey” at the **6th International Conference on Intelligent Communication, Control and Devices (ICICCD-2024)**, held on **30–31 May 2024** at UPES, Dehradun. The paper was published with Springer, highlighting the faculty's contribution to machine learning applications in sustainable agriculture.



Research Paper



Research Paper

Mr. Makarand Mali

successfully presented his research paper at the **International Conference on Digital Technology Vision 2030: Transforming Healthcare, Education and Industry (DTTV-2030)**, held on **17th–18th February 2024** at SVKM's NMIMS, Shirpur Campus. His scholarly contribution reflected his active involvement in research and emphasized emerging digital technologies for societal and industrial transformation.



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Faculties Achievements



Research Paper

Mr. Sandip Sonawane

presented his research paper titled “**Performance Evaluation of Crop Weed Classification using Deep Learning Algorithms**” at the International Conference on Information Technologies and Smart Systems (**ICITSS 2024**), organized by the Departments of CSE, ECE, and EEE, JP College of Engineering, Ayikudi, Tamil Nadu, and held on 3rd–4th April 2024.





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Department Activities



CodeCraze by GDSC RCPIT

CodeCraze 2024, the flagship event of **Converges 2024**, was successfully organized as an exciting **24-hour hackathon** at **R. C. Patel Institute of Technology, Shirpur**, during **16–17 February 2024**. The event was conducted by **GDSC RCPIT** in collaboration with **Fetch.ai**, bringing together enthusiastic student innovators from across the region.

CodeCraze served as a dynamic platform for aspiring technologists to **demonstrate creativity, enhance coding skills, and develop impactful solutions to real-world problem statements**. The hackathon promoted a strong culture of **innovation, teamwork, and peer learning**, while encouraging participants to push the boundaries of their imagination and technical expertise.

The event featured continuous **24-hour coding sessions** supported by engaging activities, refreshments, and energizing breaks to maintain participants' enthusiasm. In addition to technical development, **CodeCraze** offered valuable networking opportunities with mentors and fellow tech enthusiasts, fostering collaboration and professional connections.

Special arrangements were made to ensure a comfortable experience for participants from outside colleges, including hostel accommodation and resting facilities.

Overall, **CodeCraze 2024** emerged as an inspiring celebration of technology and innovation, empowering students to explore their potential and contribute to the evolving tech ecosystem. The institute extends sincere gratitude to the organizers, collaborators, mentors, participants, and supporters whose efforts made the event a remarkable success.





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Students Achievements



Internal SIH

Ms. Komal Chaudhari

was nominated at the **Internal Smart India Hackathon 2024**. As a member of Team Strikers, he actively participated in the prestigious institute-level hackathon and demonstrated strong problem-solving skills, innovation, and dedication toward addressing real-world challenges.

Ms. Manasi Wani

received a Certificate of Appreciation from the **Google Developer Student Clubs (GDSC)** for her active participation and successful completion of all learning pathways under the **Google Gen-AI Study Jams Program 2024**.



Google Gen-AI Study Jams



Industrial training and internship

Ms. Manasi Wani

Successfully completed an **industrial training and internship at R3 Systems India Private Limited**. During the training period from 1st July 2024 to 30th July 2024, she gained practical exposure to Core Java, Advanced Java, and Spring Framework.



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Students Achievements



Ms. Bhumika Patil

Third-year student successfully completed the “Chhatrapati Sambhaji Maharaj – SARTHI Digital Employability Enhancement Program (CSMS-DEEP)” conducted by MKCL and approved by SARTHI (Chhatrapati Shahu Maharaj Research, Training and Human Development Institute). As part of this programme, she completed Module III: Certificate in Web Designing and secured an impressive 80% mark.

Digital Employability Enhancement Program





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