SES
SHIRPUR EDUCATION SOCIETY

R. C. PATEL INSTITUTE OF TECHNOLOGY

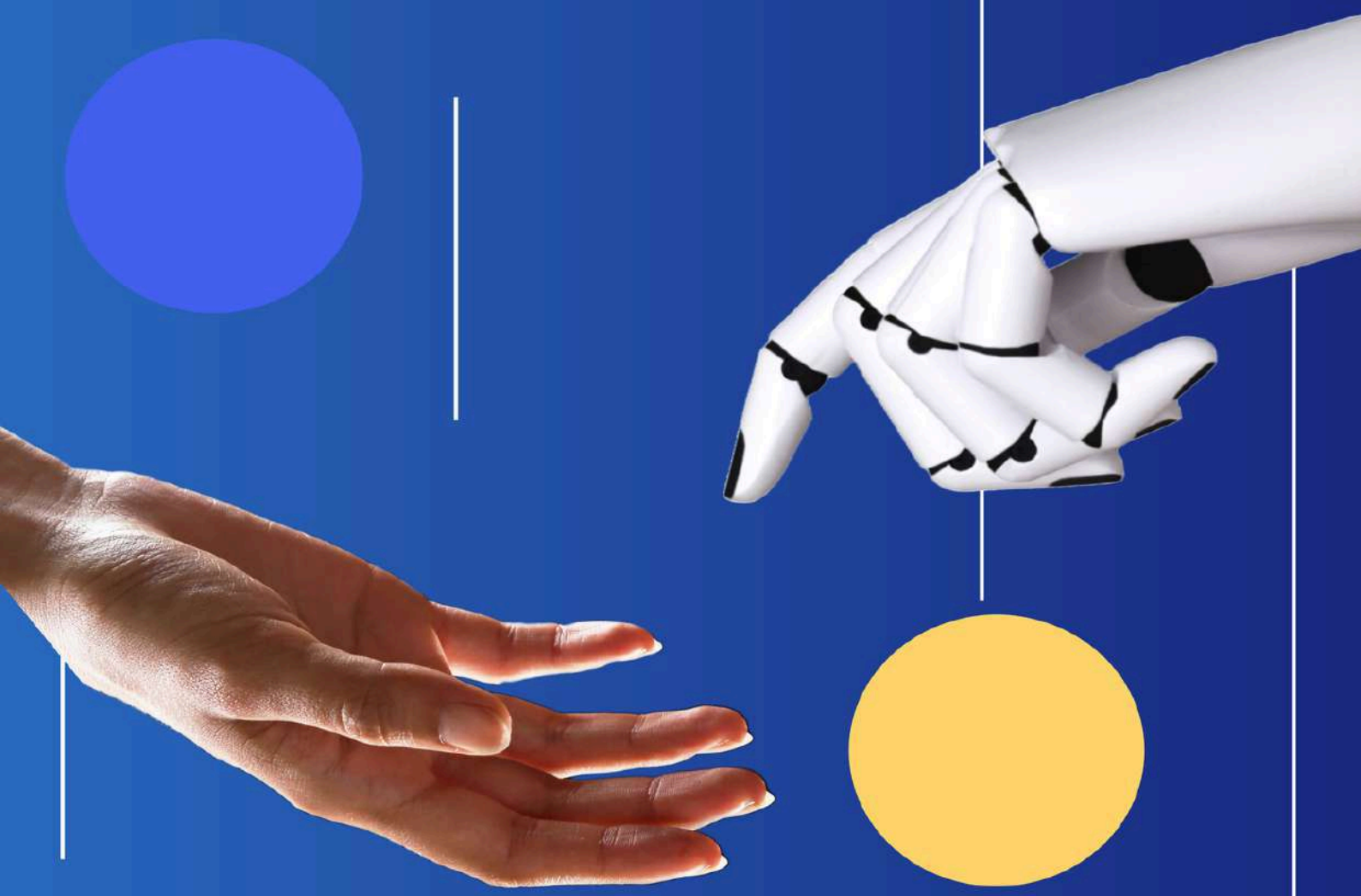
An Autonomous Institute

Approved By AICTE, New Delhi and Govt. of Maharashtra (DTE: EN - 5172)

Accredited by NAAC 'A' Grade, Bangalore.

Department of Computer Engineering

AUG-2023 TO DEC-2023



The CompVoice

News Letter for A.Y. 2023-24

www.rcpit.ac.in

R. C. Patel Institute of Technology
An Autonomous Institute

Vision of the Institute

To become a leading Institute in Technical education fostering innovation, research, ethical values, and sustainable development for the betterment of society.

Mission of the Institute

To impart high quality Technical Education through:

M1. Innovative and Interactive learning process and high quality, globally recognized instructional programs.
M2. Fostering a collaborative scientific temper among students with ethical responsibility towards the society.
M3. Preparing students from diverse backgrounds to have aptitude for employment, entrepreneurship and research with a spirit of Professionalism.
M4. To contribute to nation's sustainable development.

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.

R. C. Patel Institute of Technology
An Autonomous Institute

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,
Prof. Dr. Jayantrao B Patil
Director
R. C. Patel Institute of Technology, Shirpur

R. C. Patel Institute of Technology
An Autonomous Institute

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. Nitin N. Patil
Head, Department of Computer Engineering
R. C. Patel Institute of Technology, Shirpur

R. C. Patel Institute of Technology
An Autonomous Institute

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.

Mr. Vipul D. Punjabi
Editor
Associate 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
An Autonomous Institute

Faculties Achievements



Best Paper Award ICICSD-2023

Dr. Manoj Ishi

Received the **Best Paper Award** at **ICICSD-2023**, **Anurag University, Hyderabad**, for his **research on intelligent prediction systems in ODI cricket analytics.**

Mr. Mohmmadali Saiyyad

Along with Prof. Nitin Patil has filed a **design patent application for "Smart Text Summarizing Device"**



Design Patent



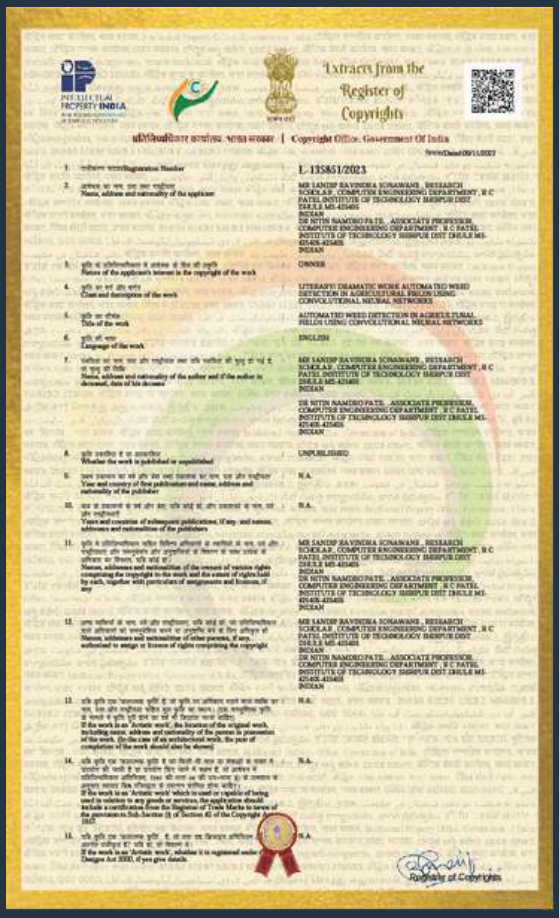
Best Paper Award ICCIXAI-2023

Mr. Mohmmadali Saiyyad

Received the **Best Paper Award** for his research paper titled **"Text Summarization Using Deep Learning Techniques: A Survey" at ICCIXAI-2023**, organized by the School of Computer Science & Engineering (SOCSE), **Sandip University, Nashik.** The award recognized his significant contribution to the field of deep learning and natural language processing and reflected his academic excellence and research capabilities.

R. C. Patel Institute of Technology
An Autonomous Institute

Faculties Achievements



Extracts from the Register of Copyrights

भारतीयपेटेंटकार्यालय, भारत सरकार | Copyright Office, Government Of India

L-135851/2023

Copyright Registration

Mr. Sandip Sonawane

Along with **Prof. Nitin Patil successfully registered the research work "Automated Weed Detection in Agricultural Fields Using Convolutional Neural Networks"** with the **Government of India under Copyright Registration No. L-135851/2023.**



R. C. Patel Institute of Technology
An Autonomous Institute

Department Activities



Smart India Hackathon 2023

The **Department of Computer Engineering at R. C. Patel Institute of Technology, Shirpur** successfully **organized an Internal Hackathon** as **part of** the nomination process for Smart India Hackathon **(SIH) 2023**. The event was conducted in multiple stages to identify and shortlist innovative student teams for the **national-level competition.**

The **first round (Idea Presentation)** was **held on 16th and 18th September 2023**, followed by the **second round (Coding and Implementation) on 23rd September 2023.** A total of 90 teams from various departments actively participated, demonstrating creativity, technical expertise, and problem-solving abilities.

The **internal hackathon aimed** to **harness student innovation**, **encourage** an **institute-level hackathon culture**, and **build a strong pipeline for initiatives such as Startup India.** It also provided students with an opportunity to develop solutions that can improve governance, quality of life, and address real-world challenges faced by ministries, industries, PSUs, NGOs, and other organizations.

Teams were evaluated by a panel of judges based on key criteria including novelty of idea, feasibility, practicality, sustainability, clarity of presentation, scale of impact, user experience, and future potential. Based on the evaluation, the **top 35 teams (30 shortlisted + 5 waiting) were selected and nominated** to **represent the institute at the final stage** of Smart India Hackathon 2023.

The successful organization of this internal hackathon offered students a valuable platform to enhance their innovation mindset, teamwork, and readiness for national-level challenges, reinforcing the institute's commitment to promoting experiential learning and product-based innovation.





R. C. Patel Institute of Technology
An Autonomous Institute

Department Activities



GOOGLARS By GDSC RCPIT

The **GOOGLARS (Google Scholars) initiative**, a dedicated sub-community under **GDSC RCPIT, successfully organized a 7-Day Bootcamp** on the **Basics of Programming in C/Java for first-year students**. The program was **conducted on 16 September** at the **Computer Center, RCPIT,** with the objective of introducing students to the core fundamentals of programming and technology at the beginning of their academic journey.

The **bootcamp witnessed an overwhelming response, as all 150 seats were filled** within just three minutes of opening registrations, reflecting the strong enthusiasm among students for technical learning.

The **training was delivered over one week** with **daily 2-hour** interactive sessions, ensuring a structured and manageable learning pace. Students were provided with valuable exposure to C programming concepts, hands-on practice, and an introduction to networking and collaborative learning.

The **primary goal of the bootcamp** was to help **students build a strong foundation in programming,** enabling them to **confidently learn advanced technologies** and **other programming languages** in the future. Feedback from **participants confirmed that the bootcamp successfully achieved its objectives** and contributed positively to students' academic growth and technical readiness.

This initiative served as an impactful step toward encouraging first-year students to explore programming, innovation, and professional development early in their careers.





R. C. Patel Institute of Technology
An Autonomous Institute

Department Activities



GIT & GITHUB By GDSC RCPIT

The Git & GitHub Workshop was successfully **organized by GDSC RCPIT** in **collaboration with** the **Coding Club of NMIMS Shirpur on 25th September 2023 for third- and fourth-year students.** The event aimed to introduce students to the essential tools of version control and collaborative software development, namely Git and GitHub, which enable users to manage, share, and host code efficiently on online platforms.

The **session was conducted from 3:00 PM to 7:00 PM at** the **Auditorium Hall, R. C. Patel Institute of Technology, Shirpur**, with an **intake of 100 students.** The workshop was **delivered by Mr. Daksh Gehlot** from the Coding Club, NMIMS Shirpur, who provided valuable insights into the fundamentals of Git and GitHub.

With a strong emphasis on **mastering the basics**, the program **focused on building a solid foundation in version control concepts**, which will support students in developing future academic and industry-level projects. The collaboration with NMIMS made the event highly engaging and interactive, creating a lively learning environment.

All participants received certificates in association with NMIMS, and the **top 80 participants were awarded exciting swags** for their active involvement. The workshop proved to be an enriching experience, enhancing students' technical readiness and promoting collaborative learning.





R. C. Patel Institute of Technology
An Autonomous Institute

Students Achievements



Zonal Level Avishkar 2024

Mr. Khalane Lalit

B.Tech final year student, **participated in the Zonal Level Avishkar 2024** (Nashik–Jalgaon Zone) held on **26 November 2023** at Shri Sant Gadge Baba College of Engineering and Technology, Bhusawal.

Mr. Kash Pawar

Successfully **qualified the NAT-TEST** conducted **by the NAT-TEST Committee, Japan.** This achievement reflected his proficiency in the Japanese language and demonstrated his commitment to developing global communication skills.



Qualified NAT-Test



Bappa Ka Prashad 3.0

Mr. Akash Patil

Successfully participated in **"Bappa Ka Prashad 3.0"**, a flagship programming contest organized by the **Google Developer Student Clubs (GDSC), RCOEM.**

R. C. Patel Institute of Technology
An Autonomous Institute

Students Achievements



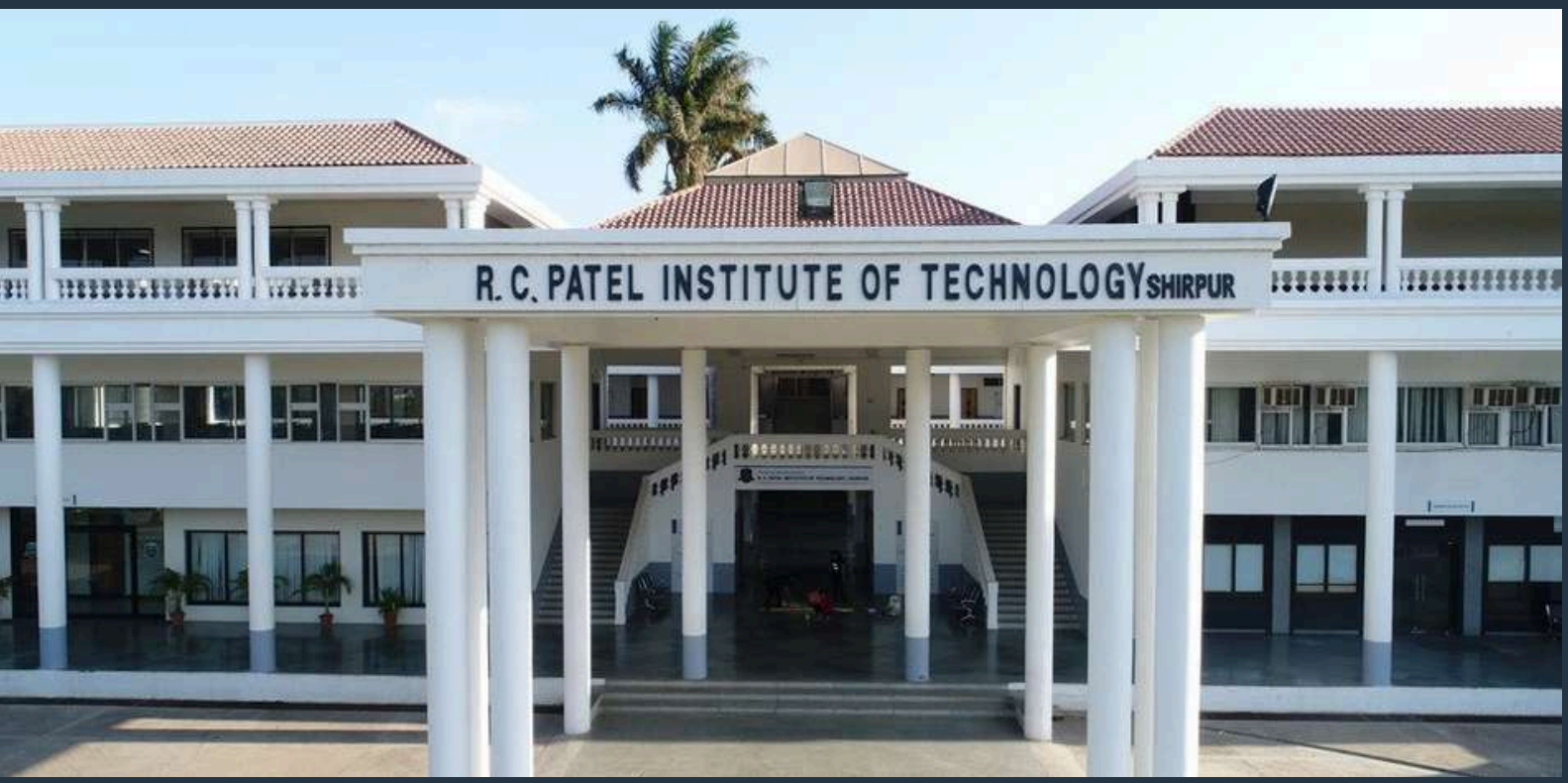
National Level Margdarshak Event

Mr. Tanmaya Mabale

Third-year student successfully participated in the **National Level Margdarshak Event** held during **Fluxus, the annual techno-cultural festival of IIT Indore**. He was awarded a Certificate of Appreciation in recognition of his active participation and meaningful engagement in the national-level event.



R. C. Patel Institute of Technology
An Autonomous Institute



R. C. Patel Institute of Technology
Near Nimzari Naka, Shirpur, (M S) 425405
Telefax: 02563-259600, 801, 802
Web: www.rcpit.ac.in