

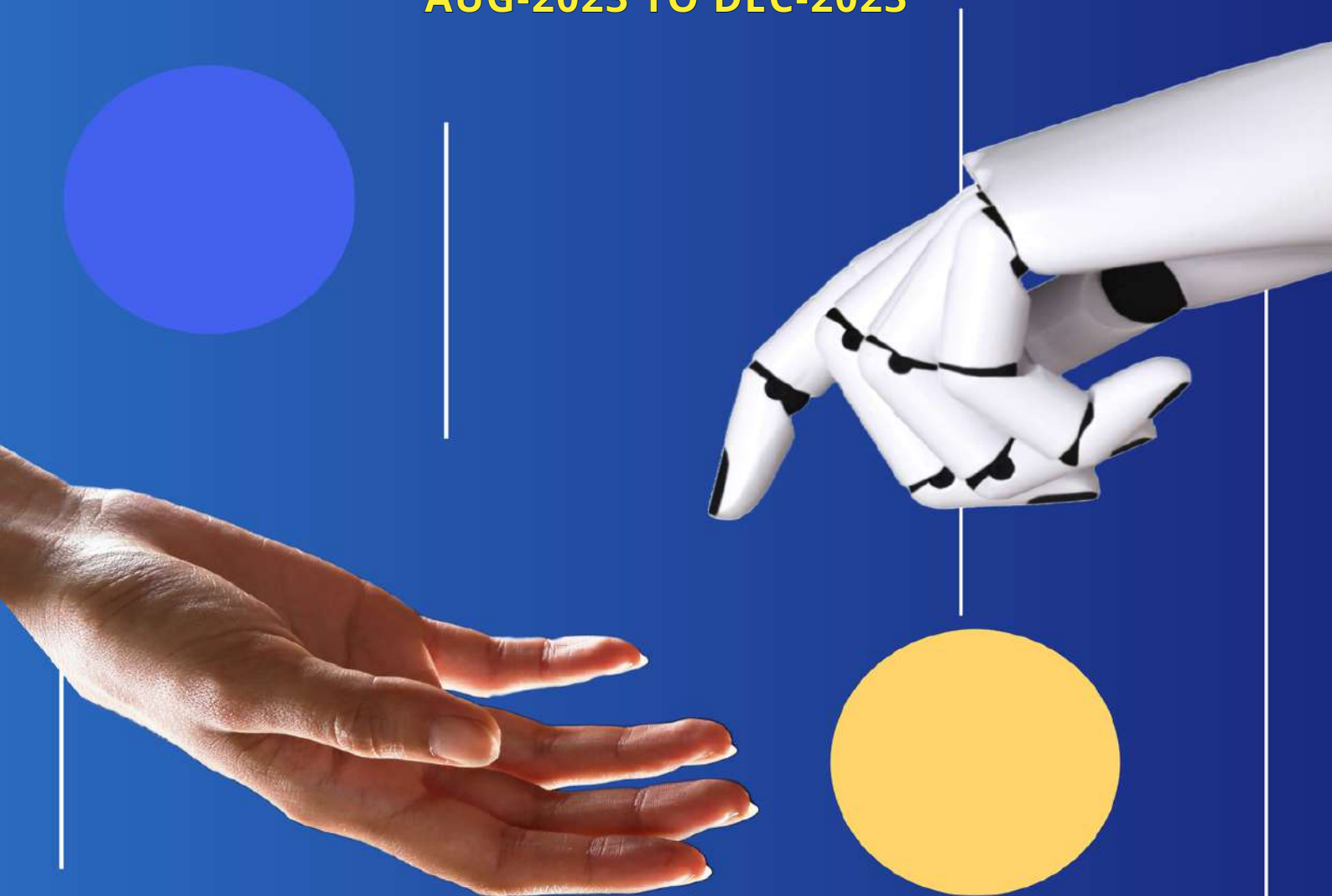


**R. C. PATEL
INSTITUTE OF TECHNOLOGY**

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

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.



R. C. Patel Institute of Technology
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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



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. Rajnikant B. Wagh

Head, Department of Computer Engineering

R. C. Patel Institute of Technology, Shirpur



R. C. Patel Institute of Technology
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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 ICICSD-2023

Dr. Monoj Ishi

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

Prof. Mohmmadali Saiyyad

Along with Dr. Nitin Patil has filed a design patent application for “Smart Text Summarizing Device”



Design Patent



Best Paper Award ICCIXAI-2023

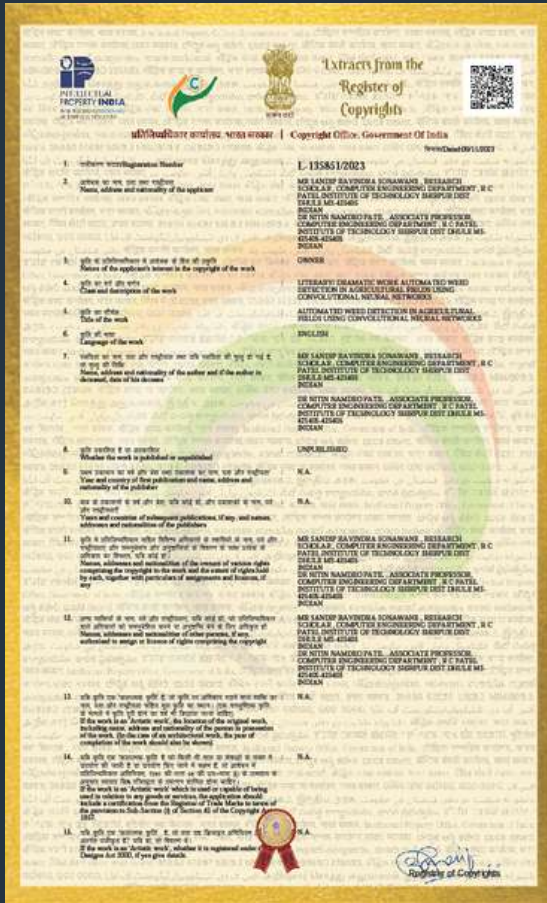
Prof. Mohmmadali Saiyyad

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
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Faculties Achievements



Prof. Sandip Sonawane

Along with Dr. 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.

Copyright Registration





R. C. Patel Institute of Technology
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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
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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
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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
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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
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Students Achievements



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.

National Level Margdarshak Event





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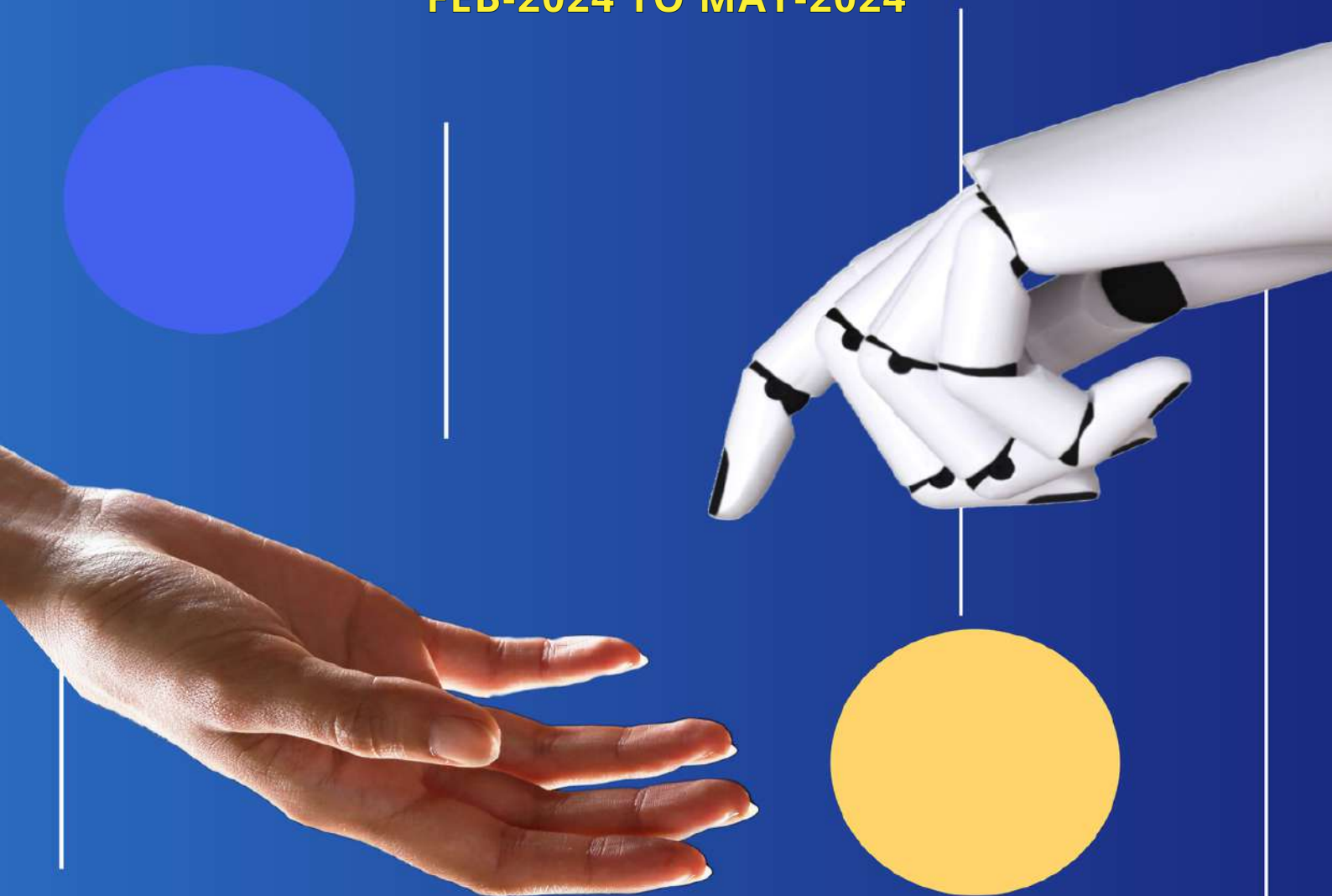


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From the Director's Desk



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Warm regards,

Dr. J. B. Patil

Director

R. C. Patel Institute of Technology, Shirpur



R. C. Patel Institute of Technology
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Prof. Dr. Rajnikant B. Wagh

Head, Department of Computer Engineering

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Prof. Vipul D. Punjabi

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Department of Computer Engineering

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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 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.



R. C. Patel Institute of Technology
An Autonomous Institute

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.





R. C. Patel Institute of Technology
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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.





R. C. Patel Institute of Technology
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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.



R. C. Patel Institute of Technology
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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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