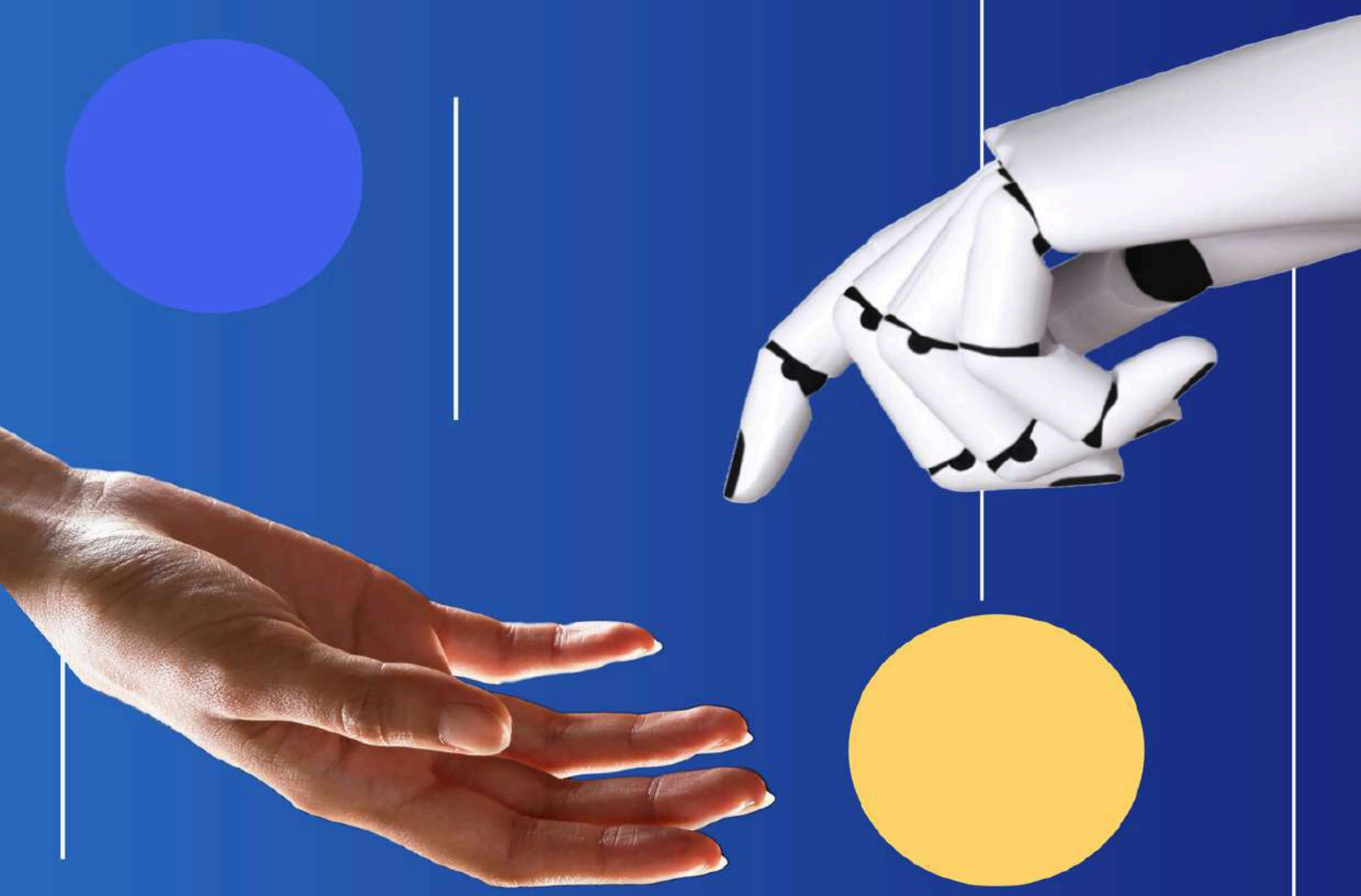
R. C. PATEL
INSTITUTE OF TECHNOLOGY

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

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


NMIMS INDORE

Certificate of Presentation

NATIONAL CONFERENCE ON DIGITAL PUBLIC INFRASTRUCTURE & SUSTAINABLE DEVELOPMENT

This is to certify that
Ms. Jayshri Suresh Sonawane
of
ASSISTANT PROFESSOR, R.C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR, INDIA
has presented a paper entitled
Large scale sentiment analysis in the cloud : A system for Real -time Public opinion Monitoring
in National Conference On Digital Infrastructure & Sustainable Development (DPSID- 2024)
held on 15- 16th March, 2024, organized by SVKM's NMIMS Deemed to be University, Indore Campus,
Madhya Pradesh, India sponsored by
Indian Council of Social Science Research, Govt. of India

Dr. Vikas Khare, Conference Co- Convener | Dr. Rajeev Srivastava, Conference Convener | Dr. Anshuman Jaswal, Conference Chair

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

Prof. Dr. Jayantrao Patil, and Prof. 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.


6th International Conference on Intelligent Communication, Control and Devices
Dehradun, India

UPES | Springer

Certificate

Paper ID: CMT-162

This is to certify that

Puja Dipak Saraf, Jayantrao Bhaurao Patil, Nitin N. Patil

have presented/ participated research paper entitled

"Feature Extraction and Machine Learning in Plant Disease Detection: A Survey"

in the Track **Intelligent Communication/ Intelligent Control/Intelligent Devices/ Sustainable Technologies** in ICICCD-2024, organized by Electrical Cluster, School of Advanced Engineering, at UPES, Bidholi Campus, Dehradun, India on 30-31 May, 2024.

Dr. Piyush Kuchhal, Conference Chair | Dr. Ranjan Mishra, Conference Co-Chair | Dr. Adesh Kumar, Convener | Dr. Rupendra Kumar Pachauri, Convener

GENSOL | xlscout | T & D Electronic Systems | Scopus | SPRINGER NATURE

Research Paper


NMIMS | NSERB

International Conference
on
Digital Technology Vision 2030 : Transforming Healthcare, Education and Industry
(ICDTV : 2030)
February 17-18, 2024
CERTIFICATE OF PRESENTATION

This is to certify that Mali Makarand Ishan of R.C. Patel Institute of Technology, Shirpur has presented a paper titled Implementation of Effective Suggestion Mining for Mobile App using Automated and Manual Approaches co-authored by Nitin N. Patil in ICDTV: 2030 organised by SVKM's NMIMS, Shirpur Campus.

Dr. Venkatadri Marzbanrao, Associate Dean, SVKM's NMIMS MPSTME, Shirpur | Director, SVKM's NMIMS, Shirpur Campus, Chairman, ICDTV-2030

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



JP COLLEGE OF ENGINEERING
Ayikudi, Tenkasi District, Tamil Nadu - 627 852, INDIA.
RUN BY DMI SISTERS
APPROVED BY AICTE | AFFILIATED TO ANNA UNIVERSITY
ISO 9001:2015 CERTIFIED

CERTIFICATE
OF PARTICIPATION

This is to certify that *Mr. Sandip Sonawane* of **R C Patel Institute of Technology, Shirpur** has presented a paper titled **Performance Evaluation of Crop Weed Classification using Deep Learning Algorithms** in the *INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGIES AND SMART SYSTEMS (ICITSS 2024)* organized by CSE, ECE & EEE departments of JP College of Engineering, held on 03rd and 04th April 2024.

ISBN No. : 978-81-968751-8-3

CONVENOR
Dr. P. Nancy
HoD / CSE

ORGANIZING CHAIR
Dr. M. Rajkumar
PRINCIPAL

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
An Autonomous Institute

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
An Autonomous Institute

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
An Autonomous Institute

Students Achievements



Certificate

This is to certify that

BHUMIKA HANSRAJ PATIL

has successfully passed

"Chhatrapati Sambhaji Maharaj

SARTHI

Digital Employability Enhancement Program"

(CSMS-DEEP)

Module IIICertificate in Web Designing

designed, developed, and offered by MKCL* and approved by SARTHI**

has secured 80% of marks in Module III.

In testimony, where of are set the Seal and Signature of

Managing Director, MKCL and Managing Director, SARTHI.

Veena Kamath
Managing Director

Shri. Ashok Kakade, IAS
Managing Director

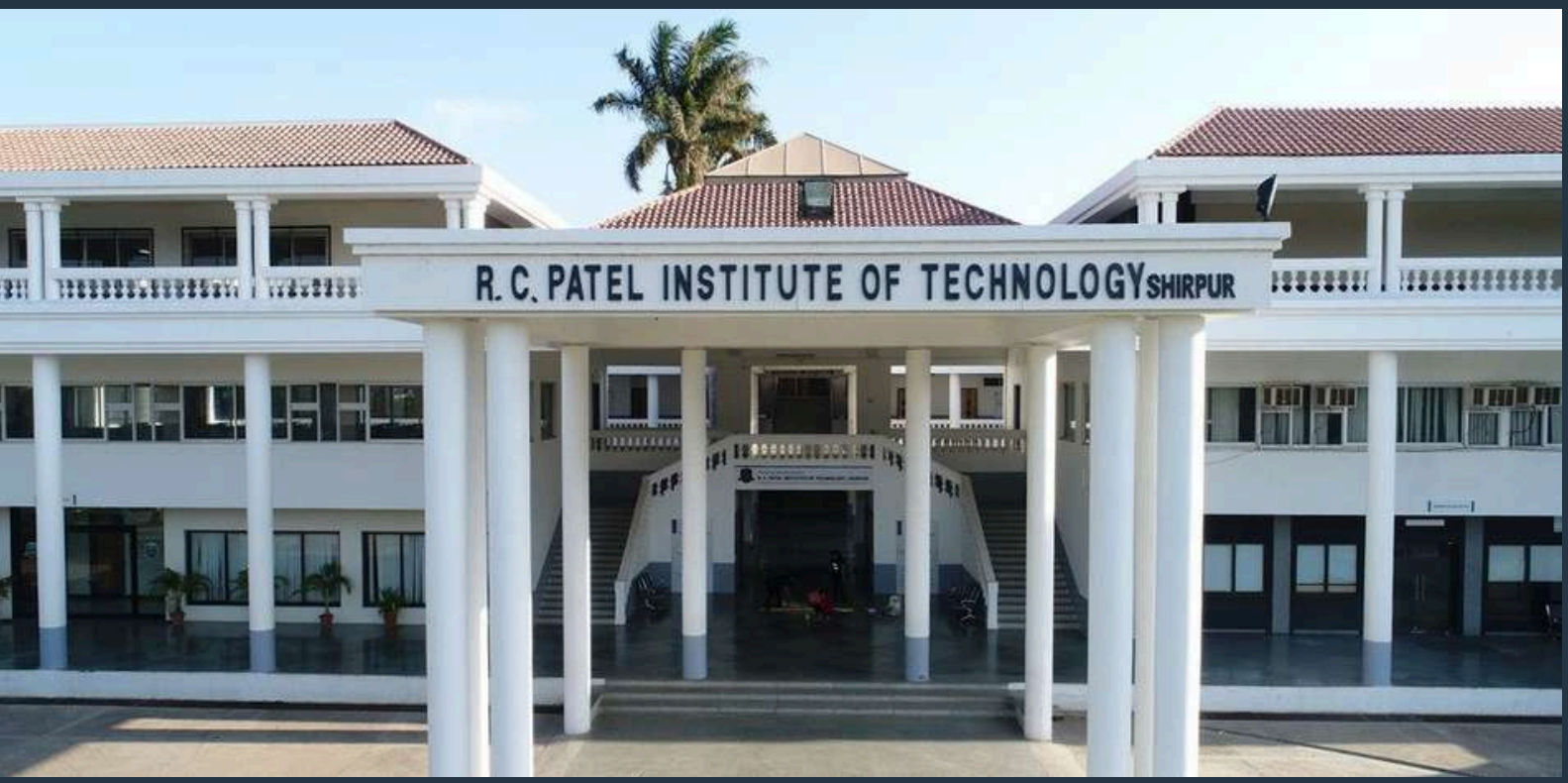
Digital Employability Enhancement Program

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.**



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