



DARPAN

Issue II

2023-24

VISION OF THE INSTITUTE

To achieve excellence in engineering education with strong ethical values.

MISSION OF THE INSTITUTE

- Innovative and Interactive learning process and high quality, internationally recognized instructional programs.
- Fostering a scientific temper among students by the means of a liaison with the Academia, Industries and Government.
- Preparing students from diverse backgrounds to have aptitude for research and spirit of Professionalism.
- Inculcating in students a respect for fellow human beings and responsibility towards the society.

R. C. Patel Institute of Technology (RCPIT), established in 2001 in Shirpur, is an Autonomous Institute accredited with an 'A' grade by NAAC and affiliated with Dr. Babasaheb Ambedkar Technological University. RCPIT offers advanced facilities like IIT Bombay Virtual Labs to enhance experiential learning, beginning with hands-on projects and internships in the third semester. The Institute has a robust career readiness program, partnerships with over 150 recruiting companies, and a strong placement record. Additionally, RCPIT provides flexible major-minor degree options and training programs for soft skills and international languages, including English, German, and Japanese.

VISION OF THE DEPARTMENT

To become a center of excellence in Data Science education and research by nurturing technically proficient professionals with strong ethical values.

MISSION OF THE DEPARTMENT

- *To impart quality education in Data Science using state-of-the-art technologies and methodologies.*
- *To foster analytical thinking, innovation, and industry-oriented skill development.*
- *To create responsible professionals who can contribute to society through data-driven solutions.*

The Department of Computer Science & Engineering (Data Science) at R. C. Patel Institute of Technology was established in 2020 to meet the growing demand for skilled data science professionals. It offers an undergraduate program focused on data analysis, algorithmic thinking, and statistical modeling. Data Science combines mathematics, statistics, computer science, and domain-specific knowledge to evaluate structured and unstructured data, covering areas such as data mining, machine learning, and artificial intelligence. As businesses across various sectors leverage data for decision-making, the role of a Data Scientist is highly sought after, promising significant growth and global opportunities.

DIRECTOR'S MESSAGE



Prof. Dr. Jayantrao Bhaurao Patil
Director, RCPIT, Shirpur

At RCPIT, we don't just educate engineers — we empower innovators, entrepreneurs, and ethical professionals. Our approach of blending academic rigour with real-world exposure ensures that students are not only job-ready but also future-ready. With a strong emphasis on research, interdisciplinary learning, and soft skills, our graduates emerge as well-rounded individuals prepared to lead in a fast-changing global landscape.”

HOD'S MESSAGE



Dr. U. M. Patil
Head Of Department

“The Department of Computer Science & Engineering (Data Science) at R. C. Patel Institute of Technology, Shirpur, was established in 2020 to meet the growing global demand for skilled data science professionals. The undergraduate program is designed to provide students with strong foundations in data analysis, algorithmic thinking, and statistical modeling, enabling them to transform data into actionable insights.

Data Science is an interdisciplinary field that integrates mathematics, statistics, computer science, and domain expertise to analyze both structured and unstructured data. It covers diverse areas such as data mining, machine learning, big data analytics, business intelligence, and artificial intelligence.

As industries across finance, marketing, healthcare, IT, banking, and e-commerce increasingly depend on data-driven decision-making, Data Science has emerged as one of the most dynamic and in-demand career paths. Recognized by IBM as the “21st century’s most attractive job”, the role of a Data Scientist offers immense growth potential and global opportunities.”

EDITOR'S MESSAGE



Prof. Manisha S. Patil
Faculty Editor

DEAR READERS,

This edition of the newsletter gives you comprehensive coverage of all the major events that have occurred inside the department, in addition to all the other regular activities and achievements that are described in its columns. The Department is committed to provide its students an education that is among the greatest in the world through a combination of demanding academic study, the excitement of discovery, and a range of intellectual stimulation.



Ms. Shubhangi Thakare
Student Editor



Mr. Uday Bharatiya
Student Editor

STUDENTS ACHIEVEMENTS



Success in Japanese Language Proficiency Test (N5 Level)

R.C. Patel Institute of Technology conducts various activities throughout the year for the students' career growth, focusing on placement and higher education. A foreign language is an asset, and multinational companies are now giving preference to students trained in foreign languages. Recognising this, the college started Japanese and German language training classes a few years ago.

The JLPT (Japanese Language Proficiency Test) N5 is an international level Japanese certification exam. Recently, 14 students from R.C. Patel Institute of Technology, Shirpur, successfully passed the JLPT N5 international Japanese exam. The Japanese language has levels N-5, N-4, N-3, N-2, and N-1. These levels include reading, writing, speaking, and listening, according to the level. A test of 180 marks is conducted, and a minimum of 90 marks is required to pass.

We are proud to declare that this year three students, Sachin Dabhade, Vrushali Patil, and Kumudini Patil, from the department successfully completed the N5 level certification.

The Institute strives to provide job opportunities to students proficient in the Japanese language in renowned companies like TCS, Wipro, Capgemini, Accenture, Cognizant, and Johnson Controls. Learning Japanese increases a student's professional value. Therefore, knowing the language opens up job opportunities in various fields such as business, social sciences, technology, science, journalism, and tourism.

STUDENTS ACHIEVEMENTS



Technical Festival "Converges-2024" successfully organised at R.C. Patel Institute of Technology, Shirpur.

Present at the inauguration of the national-level technical festival "Converges-2024", organised by RCPIT Shirpur, were Mr Pralhad Dhumal, General Manager of Fox Solution Pvt. Ltd., Nashik; Mr Rajgopal Bhandari, Vice-President of Shirpur Education Society; Dr J.B. Patil, Director of Patel Engineering College; Dr P.J. Deore, Deputy Director; Heads of Departments; Deans of various committees; and teaching and non-teaching staff .

The two-day tech-fest, Converges-2024, embraced diversity and included discipline, challenges, and interests within the technology sector. Converges-2024 provided a unique opportunity for everyone, from coding challenges to robotics competitions, and from financial literacy workshops to sustainable initiatives. This technological festival brought together students, professionals, and experts, encouraging participants to exchange ideas and learn from each other.

While traditional tech-fests focus entirely on coding or engineering, RCPIT's tech-fest included a total of nine competitions: Code Craze, Path Breaker Challenge, Detective Returns, Water Rocket, Civista, Stranger Code, Tech Expo, Electrax, and Trade Tech. More than 1,500 students participated in these various competitions, forming 442 groups.

For the success of the programme, the Dean of Student Welfare, Dr Amruta Bhandari, and student coordinators Vedant Thakur, Uday Bharatiya, and Vedant Deshmukh worked hard.

STUDENTS ACHIEVEMENTS



The Stranger Code event showcased the innovation, dedication, and technical acumen of participants. The meticulous planning and transparent evaluation process ensured fairness and credibility.

Special thanks to and Prof. Dr. R. B. Wagh and Prof. S. M. Pardeshi (Club Coordinator) for his guidance for his unwavering support. Their contributions played a pivotal role in making the event a grand success. Feedback from student participants highlighted the event's engaging format, unique challenges, and the valuable learning experience it provided.

For the success of the event, Meghna Patil, Geetanjali Patil, Tejas Patil, Uday Patil, Jinendra Gavit, Rushikesh Patil, Ganesh Pawar, Gaurav Dhangar, Mayuresh Pardeshi, Parth More, Milind Rajput and Sarthak Patil worked hard.

R. C. Patel Institute of Technology, Shirpur | An Autonomous Institute

STUDENTS ACHIEVEMENTS



CodeCraze 2024, the flagship event of Converges 2024, unfolded as a thrilling 24-hour hackathon that brought together the brightest minds from across the region. Organized by the Google Developer Student Club (GDSC) in collaboration with Fetch.ai, CodeCraze aimed to foster innovation, collaboration, and problem-solving skills among participants. Spanning 24 intense hours of coding, creativity, and camaraderie, CodeCraze promised to be an unforgettable experience for all involved.

For the successful execution of the event, Shriyan Patil, Vaishali Thakare, Swarali Bedse, Rajesh Khawane (First); Pranal Rokade, Jayesh Sonawane, Ketan Lohar, Prasannajeet Jain (Second); Yash Chaudhari, Sanjeevani Rajput, Kunal Salunke, and Satish Sonawane, took the efforts.

DEPARTMENT ACTIVITIES



The department had successfully organized an Expert Session on “Kubernetes and Kafka” on May 16, 2024. The talk was delivered by Mr. Shubham Patil, a seasoned Data Engineer at Deutsche Bank, Europe's leading financial institution. Mr. Shubham Patil is also a proud alumnus of the Institute. With a robust background as a Machine Learning Engineer and Data Scientist, He shared the essence of his 6 years of rich experience in data science and AI. He discussed building the real-world applications, showcasing skills in leveraging data for innovative solutions.

Head of Department, Dr. Ujwala Patil mam, observed satisfaction over the interaction and thanked that the expert session greatly contributed to students’ learning and professional growth. Hon. Director Dr. J B Patil, and Hon. Dy Director Dr. P J Deore, have expressed their satisfaction over the initiative.

DEPARTMENT ACTIVITIES



Prof. Ashish K. Patil delivered an insightful session on "Use of AI in the Police System" at the Superintendent of Police Office, Dhule, on 18th March. The session was attended by District Superintendent of Police (SP), Additional Superintendent of Police, Deputy Superintendent of Police, all Police Inspectors, and Police Sub-Inspectors of Dhule district.

The SP Office has shown keen interest in leveraging AI to solve real-time challenges with the support of the Department of Data Science. At the conclusion of the training, the SP office thanked the faculty and the Institute by adding that session would prove to be a significant step towards AI-driven policing. The management, Hon. Director Dr. J B Patil, Hon. Dy Director Dr. P J Deore, Head of Department D. U M Patil have expressed their satisfaction over the initiative.

DEPARTMENT ACTIVITIES



The 'She Arise 2.0' programme, held at R. C. Patel Institute of Technology, Shirpur, was inspired by Capgemini's CSR mission and executed with the expertise of Centum Foundation. Aimed at uplifting young women, the programme provided knowledge and tools for their professional growth and encouraged discussions on career paths and job roles. With over 60% of the 80 participants securing placements, the initiative demonstrated its effectiveness in empowering students. The collaboration highlights the impact of corporate and educational partnerships in fostering sustainable growth and social change, thanks to the efforts of Training and Placement Officer Prof. Milkesh Jain and his team.



National Science Day was observed at R.C. Patel Institute of Technology, Shirpur, organized by the Department of Applied Sciences and Humanities, focusing on "Scientific State of Indian Culture." This event marks the anniversary of Dr. C.V. Raman's 'Raman Effect' presentation on February 28. Competitions such as essay writing, poster presentations, elocution, and scientific model preparation engaged around 117 first-year engineering students to promote scientific interest and its daily relevance, culminating in a prize distribution ceremony for winners.

STUDENTS ACHIEVEMENTS



We are happy to announce that Mr. Pawar Sumit Premraj and Ms. Chaudhari Neha Sachindrasing has been selected by EagleBytes Solution via campus placement drive for the post of Software Developer with an annual salary package of 3.2 lakh. EagleBytes Solution Pvt. Ltd. is a software company that works in various fields such as Data Science, coding languages, AWS, Blockchain, SalesForce, Testing, GIS, digital marketing, and graphics design .

Student Editorial Board

Mr. Uday Bhartiya
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Mr. Sarthak Patil
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