



DARPAN

Issue II

2024-25

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:

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

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

VISION OF THE DEPARTMENT

To provide cutting-edge Computer Engineering education in Data Science while instilling socio-moral values.

MISSION OF THE DEPARTMENT

- To deliver state-of-the-art ICT-enabled teaching and learning to achieve excellence in Data Science education.*
- To develop professionally competent Data Science Engineers, meeting evolving industrial and societal needs.*
- To prepare employable professionals with ethical values and a commitment to professional and social responsibility.*

The Department of Computer Science & Engineering (Data Science) at R. C. Patel Institute of Technology, Shirpur 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 R. C. Patel Institute of Technology, Shirpur, we don’t just educate engineers — we empower innovators, entrepreneurs, and ethical professionals. Our approach of blending academic rigor 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 and 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. Since its inception, the Department has steadily progressed towards academic and research excellence, fostering innovation in data-driven technologies. With a strong foundation in interdisciplinary learning, industry-oriented practices, and a commitment to ethical values, we continue to nurture competent data science professionals. Our focus on ICT-enabled teaching, research, certifications, and co-curricular engagement reflects our mission to meet evolving societal and industrial demands. This newsletter highlights our collective achievements and aspirations as we advance towards becoming a center of excellence in Data Science education.”

EDITOR'S MESSAGE



Prof. Atul D. Mairale
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.



Mr. Uday Bhartiya
Student Editor



Ms. Riya Deshmukh
Student Editor

SPOTLIGHT



Parent Teacher conducted in the Department

A parent-teacher meet was recently held by the Department to review students' academic progress and present an overview of the college's academic activities.

At the beginning of the meet, Hon. Deputy Director Dr P J Deore welcomed the parents and guided them on the care and awareness required for their children in today's changing times. He emphasised that parents, alongside teachers, play a crucial role in a student's academic journey.

Head of Department Dr Ujwala Patil informed the parents in detail about the various initiatives run by the college to make students employable, in addition to academic work. This included information on the previous semester's results, a review of the current semester's test exam results, internal assessment reports, and student attendance.

Dr Nitin Shinde gave an audio-visual presentation on the overall journey of the college and the department. This included information on NAAC accreditation, consistent admission rates, the rising year-on-year placement graph, the Local Guardian scheme, and the implementation of an updated curriculum.

Prof. Kailas Deore provided parents with in-depth information about the placement process, various company requirements, and the efforts expected from students.

Parents Mr Anil Patil, Mr Manoj Borgaonkar, and Mr Nitin Chauk expressed their satisfaction with the college's efforts at all levels and particularly appreciated that Patel Engineering regularly organises such meetings.

STUDENTS ACHIEVEMENTS



R. C. Patel Institute of Technology, Shirpur successfully organised Technical Festival "Converges-2025"

"Given India's pace of development, we are soon emerging as a developed nation. Therefore, young engineers should now aim to fulfil this dream of a developed India and conduct research by acquiring technological skills and education," stated Mr. Rajgopalji Bhandari, Vice-President of the Shirpur Education Society. He was speaking at the inauguration of the national-level technical festival "Converges 2025," organised by the autonomous R. C. Patel Institute of Technology, Shirpur.

Present at the event were Mr. Manish Mehra (Program Manager, 'Japanese Development Center,' TCS, Indore), Mr. Abhishek Maurya (N2 level Senior Bilingual Expert), Mr. Krishna Patil (Power House Global Services, Dubai), Director Dr J. B. Patil, Deputy Director Dr P. J. Deore, all department heads, deans, faculty, and staff.

A total of 2,199 students registered for the various competitions in the techfest via the 'Unstop Portal', with which the college has an MoU. All winners were felicitated with cash prizes, mementos, certificates, and attractive gifts from the sponsors by SES Director Mr. Atul Bhandari and Secretary Mrs. Resha Patel.

STUDENTS ACHIEVEMENTS



Technical Festival "Converges-2025"

The recently concluded Converges Tech Fest, held at the R. C. Patel Institute of Technology (RCPIT), once again proved to be a melting pot of creativity, technical brilliance, and competitive spirit. Students from various departments showcased their skills in high-stakes challenges ranging from complex coding to entrepreneurial pitching. The festival reached its climax with the announcement of the first-prize winners across its flagship events. From the intense logic of "CodeCraze" to the high-pressure survival rounds of the "Squid Maze," these students have emerged as the brightest minds of the year.

We congratulate the First Prize Winners - Heramb Chaudhari, Ojaswini Borse, Rishi Patil, and Sahil Sonawane in Cerebral Animavers; Shravani Patil, Samiksha Patil, Harshal Chaudhari, and Mahesh Patil in Muggle Mystery; Jay Patil, Adnan Qureshi, Gaurav Borse, and Akanksha Borse in CodeCraze; Nikhil Bhalkar, Bhupesh Chaudhari, Jignesh Deore, and Nikita Saindane in Squid Maze; Komal Bhamare and Harshada Bhoi in Googler, and Jay Girase, Khushi Ahire, Raj Bari, Vineet Bari, and Vaishnavi Bhavsar in Shark Tank.

All winners were felicitated with cash prizes, mementos, certificates, and attractive gifts from the sponsors by SES Director Mr Atul Bhandari, Secretary Mrs Resha Patel, Director Dr J B Patil, and Deputy Director Dr P J Deore. This commendable initiative was realized with the support from all HoDs, Deans, Faculty and Non Teaching Staff, our sponsors along with student volunteers of the Institute.

STUDENTS ACHIEVEMENTS



'Artificial Intelligence Year-2025' initiative inauguration

All India Council for Technical Education (AICTE, New Delhi), has declared 2025 as the 'Artificial Intelligence Year' to organize widespread awareness, dissemination, research, discussions, and competitions related to AI in India.

The Department of CSE (Data Science) and AIML at R. C. Patel Institute of Technology, Shirpur has undertaken an initiative to celebrate 2025 as the 'Artificial Intelligence Year'. The initiative was inaugurated by Director, Dr. J. B. Patil and Dr. Pravin Loharkar, Professor, NMIMS's MPSTME, Shirpur Campus as chief guest. Head of Department Dr. Ujwala Patil mam provided details about the various programs the department will conduct throughout the year. Chief guest Dr. Loharkar guided students on 'No Coding' and the future job opportunities in the field of AI.



STUDENTS ACHIEVEMENTS



Training camp for Shirpur-Varwade Municipal Council employees

The Department of CSE (Data Science) and AIML at R. C. Patel Institute of Technology, Shirpur recently conducted a training camp for the employees of the Shirpur-Varwade Municipal Council, Shirpur. This camp was part of the Institute's 'Artificial Intelligence Year-2025' initiative, sponsored by the All India Council for Technical Education, New Delhi (AICTE).

The camp was inaugurated by the Director, Dr. J. B. Patil, The Municipal Council's Deputy Chief Officer, Mr. Harshal Bhamare, Head of Department Dr. Ujwala Patil, and other council officials.

Initially, Head of Department Dr. Ujwala Patil outlined the camp and explained how AI can simplify the Council's daily operations. Dr. Nitin Shinde informed the employees how AI tools like OpenAI, Gemini, DeepSeek, and CoPilot can be effectively used for daily administrative tasks such as creating documents, certificates, important files, preparing proposals, managing financial transactions, and giving presentations. Prof. Kailas Deore shed light on advanced MS Office and its uses.

Clerks, engineers, accountants, and other administrative staff from all departments of the Shirpur-Varwade Municipal Council attended the camp and appreciated the efforts by Institute.

The success of this camp was met with satisfaction by the Shirpur Education Society's leadership including Shri. Amrishbhai Patel and all Institute authorities.

STUDENTS ACHIEVEMENTS



Students success in Foreign Language certification exams

The Institute has been running a Japanese and German language training program for many years. Every year, students are trained in these languages and pass high-difficulty global examinations. Recently, 15 second and third-year students achieved notable success by passing the 'NAT-Q5' and 'JLPT N5' Japanese language certificate exams.

The objective of the college's foreign language training initiative is to equip students with essential linguistic skills, thereby opening up new global academic and career opportunities. A special Japanese language training class was started for students in the 2017-18 academic year. The Institute has also signed several MoUs to secure positive cooperation for internships, placements, and other academic opportunities for bilingual candidates.

The 15 students who passed the 'NAT-Q5' and 'JLPT N5' exams, opening doors to higher education and career opportunities are: Bhalkar Hiral Uday, Himanshu Prakash Patil, Patil Chetan Dipak, Pranav Nitin Tatar, Shivam Vivek Desle, Vinay Nandkishor Shah, Yash Pandurang Pawar, Prajakta Anil Patil, Neha Ravindra Chavan, Komal Prakash Mahajan, Diksha Madhav Pal, Ashwini Patil, Janhavi Badgujar, Parimal Shirsath, and Mansi Patil.

Hon. Director Dr. J B Patil and Head of Department Dr. U M Patil both appreciated Dr Smital Patil, Dean of the "International Relations and Higher Education" and Dr. Manisha Patil, Department coordinator for their efforts behind these training classes.

STUDENTS ACHIEVEMENTS



Memorandum of Understanding with Powerhouse Global Services, Nashik

The Department of Data Science and AIML at R.C. Patel Autonomous Engineering College recently conducted a training camp for the employees of the Shirpur-Varwade Municipal Council, Shirpur. This camp was part of the college's 'Artificial Intelligence Year-2025' initiative, sponsored by the All India Council for Technical Education, New Delhi (AICTE). The use of modern technology like AI will make administration more efficient and transparent. Seizing the opportunity of the government's technology training initiative, the Institute organized this training class.

The camp was inaugurated by the college Director, Dr J.B. Patil. The council's Deputy Chief Officer, Mr Harshal Bhamare, and other officials were present. Initially, Head of Department Dr Ujwala Patil outlined the camp and explained how AI can simplify the council's daily operations.

Dr Nitin Shinde informed the employees how AI tools like OpenAI, Gemini, DeepSeek, and CoPilot can be effectively used for daily administrative tasks such as creating documents, certificates, important files, preparing proposals, managing financial transactions, and giving presentations. Prof. Kailas Deore from the Data Science department shed light on advanced MS Office and its uses.

Clerks, engineers, accountants, and other administrative staff from all departments of the Shirpur-Varwade Municipal Council attended. The success of this camp was met with extreme satisfaction by the Shirpur Education Society's leadership Shri Amrishbhaiji Patel.

STUDENTS ACHIEVEMENTS



Successful selection in Tech Mahindra Pvt. Ltd.

We are pleased to announce that our students- Bhartiya Uday Dineshkumar, Patil Rohit Mahendra, Jain Khushal Narendra, Patil Vijay Satish, Saindane Nikita Sudhir, More Sumit Nandu, Patil Mohit Bharat and Sonawane Ruchita Prakash, have been selected by the multinational company Tech Mahindra for the post of Associate System Engineer with an annual salary package of INR 3.25 lakh.

Tech Mahindra Pvt. Ltd. is a software company that provides technical advice and digital transaction solutions to global industrial enterprises. It offers a full spectrum of services, including IT, enterprise applications, business process services, engineering services, network services, customer experience and design services, cloud, and infrastructure.

Final-year undergraduate students with 60% marks in each year were eligible for this recently concluded campus placement. The selection process, held in three stages, began with an aptitude test, followed by a technical interview, and finally an HR round.

Training and Placement Officer Milkesh Jain and Prof. K.D. Deore worked hard for the success of the campus placement.

Head of Department Dr. Ujwala Patil has congratulated these students and remarked that “It is certainly a matter of pride for our students to start their careers with such a renowned company while they are still completing their final year of education.”

STUDENTS ACHIEVEMENTS



Successful selection in Apmosis

We are thrilled to declare that two final-year engineering students, **Sonawane Ruchita Prakash** and **Baviskar Neha Bapu**, have been selected for the post of Associate System Engineer with renowned IT company Apmosis Technologies Pvt. Ltd. at INR 4 lakh per year salary. The company with over ten thousand employees, works with BFSI, manufacturing, logistic, and e-commerce companies, providing production, development, and testing services. Its key features include DevOps, RPA, and script-less automation.

Successful placement in Build.INT



In the first-ever campus placement process conducted by the renowned IT company Build.INT, **Patil Durgesh Vikas** and **Patil Uday Sudhakar** have been selected as Software Developer Interns and Data Analyst Interns. Build.INT provides corporate clients with automated products and high-quality engineering services related to energy saving and its proper use through their web software. Based on their performance during the six-month internship, these students will get a regular employment with an annual salary package of INR 3 to 5 lakh. Prof. Dr. Ujwala Patil, Head of Department, has expressed her satisfaction over the success of students and efforts taken by Training and Placement Officer Prof. K D Deore.

STUDENTS ACHIEVEMENTS



Successful selection in Quality Kiosk

Established in 2000, Quality Kiosk is one of the world's largest independent quality engineering providers. The company provides services in quality engineering, QA automation, performance assurance, intelligent automation and RPA, customer experience management, site reliability engineering, digital testing, cloud, and data analysis solutions.

Recently, Quality Kiosk Pvt. Ltd. organised a campus placement exclusively for all eligible students at the Institute. We are happy to announce that four students Bari Sunny Sanjaykumar, Khurpade Rushikesh Vinod, Nikwade Kalyani Rajendra, and Chaudhari Nikhil Vitthal have been selected for the post of Software Engineer Trainee with an annual salary of INR 2.5 lakh under a pre-placement offer.

Training and Placement Officer Prof. Milkesh Jain and Prof. K.D. Deore worked hard for the success of the campus placement. This student success was congratulated by Prof. Dr. Ujwala Patil, Head of Department and all the faculty.

Successful selection in Lear Corporation



We are happy to announce that our student Patil Mayur Prafulla has been selected for the post of Data Engineer by the prestigious Lear Corporation Ltd. with an annual salary of INR 6 lakh. Lear Corporation with its Global Capability Centers (GCC) in locations like Pune focuses on building data pipelines, cloud infrastructure, and supporting global manufacturing or HR analytics. This success was congratulated by Prof. Dr. Ujwala Patil, Head of Department and all the faculty.

DEPARTMENT ACTIVITIES



Resounding Success in NPTEL Examination

Students have achieved remarkable success in the National Program on Technology Enhanced Learning (NPTEL) examination, organized by the Ministry of Education, Government of India, for the 2024-25 academic year. NPTEL is part of the 'SWAYAM' platform, which provides MOOCs (Massive Open Online Courses). The courses and educational resources are created by faculty with high academic qualifications from institutions like the IITs and IISc, Bangalore. Students complete these online courses, based on advanced and emerging concepts in engineering and technology, within a given timeframe and then face these high-difficulty exams.

Dr Manisha Patil, served as the NPTEL coordinator, guiding students about available courses and the exam registration process. This student success was congratulated by Prof Dr J B Patil, Director, Prof Dr Ujwala Patil, Head of Department and all faculty.

Ph D awarded to Dr. Manisha Patil



Prof. Dr Manisha Shantaram Patil, has been awarded a Ph.D. in the field of 'Acute Pain Intensity Recognition' by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. Her main research topic was 'Multimodal Approach for Acute Pain Intensity Recognition' wherein the system objectively diagnoses pain using biopotential signals, facial expressions indicating pain, and physical sensors. She has published eight research papers based on this work in various renowned international journals. She was congratulated for her achievement by Hon. Director Prof Dr J B Patil, Department Head Prof Dr Ujwala Patil, faculty and students.

DEPARTMENT ACTIVITIES



Industry Experts conduct Mock Interview of students

Mr. Lakhan Thakur, and his team distinguished alumni with over 12 years of industry experience, recently conducted mock interviews for second-year and third-year students specializing in Computer Science & Engineering (Data Science). Their extensive expertise provided students with a realistic simulation of technical interviews, encompassing both domain-specific questions and soft skills assessment.

The sessions conducted on April 11 and 12, 2025, aimed to prepare students for real-world recruitment processes, offering personalized feedback to enhance their performance and confidence. Students appreciated the opportunity to engage with seasoned professionals, gaining valuable insights into industry expectations and interview strategies. Such initiatives bridge the gap between academic learning and professional readiness, fostering a culture of continuous improvement and career preparedness.

Prof. Dr. Ujwala Patil, Head of the Computer Science & Engineering (Data Science) department at R. C. Patel Institute of Technology, played a pivotal role in orchestrating the recent mock interview sessions. Her proactive approach and commitment to student development were instrumental in bringing experienced alumni, Gajanan Patil and Lakhan Thakur, to engage with the students. Dr. Patil's dedication to bridging academic learning with industry expectations continues to inspire and prepare students for successful careers in the tech industry.

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

DEPARTMENT ACTIVITIES



Industry Experts assessments for students' projects

On May 2nd and 3rd, 2025, our alumni Mr. Gurav Patil and Mr. Lakhan Thakur, each bringing over 12 years of industry experience, conducted comprehensive project assessments for second- and third-year Data Science students at R. C. Patel Institute of Technology. Their evaluations focused on the technical depth, innovation, and real-world applicability of the student projects.

This initiative provided students with invaluable feedback from seasoned professionals, enhancing their understanding of industry expectations and standards. Such engagements bridge the gap between academic learning and professional requirements, better preparing students for future career challenges. On May 3, 2025, Mr. Gurav Patil and Mr. Lakhan Thakur, delivered comprehensive feedback on project assessments for students.

Dr. Ujwala Patil, Head of the Computer Science & Engineering (Data Science) department, played a pivotal role in facilitating the recent project assessments conducted by alumni. Her proactive approach ensured that students received comprehensive guidance on project selection, aligning academic endeavors with industry expectations.

DEPARTMENT ACTIVITIES



IIT BOMBAY



Institute ranked 1st in IIT Bombay's Virtual Lab

The Institute has secured the first position in the Virtual Lab rankings, demonstrating outstanding performance among 358 renowned higher technology institutions and colleges from across the country. This ranking is part of the Virtual Lab workshop initiative created by the prestigious Indian Institute of Technology (IIT), Bombay.

This recognition underscores Patel Engineering's commitment to enhancing excellence in education and providing students with cutting-edge resources. The Virtual Lab initiative by IIT Bombay aims to enhance the practical learning experience for students nationwide.



'Vachan Sankalp Maharashtra'

"Vachan Sankalp Maharashtra" initiative has begun with great enthusiasm in the students. This innovative program is being implemented by the Maharashtra state government to inspire reading habits among students at the start of the New Year.

A Book Exhibition was first held at the Institute on 31 December 2024 and Similarly, on 1 January, a one-day "Reading Skills Workshop" was organized in coordination with Librarian Prof. Mahesh Sonawane, Department coordinator Dr. Manisha Patil and Club Communicado members. The successful organization of this commendable initiative was met with pleasure by Director Dr. J B Patil, Dy. Director Dr. P J Deore, Head of Department Dr. Ujwala Patil and all faculty alike.

DEPARTMENT ACTIVITIES



Annual Gathering 'Reflection'

The annual gathering of R.C. Patel Institute of Technology, Shirpur 'Reflection 2025', was inaugurated by the Vice-President of Shirpur Education Society, Mr Rajgopal Bhandari. Additionally, the wall poster for the college's upcoming tech-fest, 'Converges-25', scheduled for February, was unveiled by the dignitaries. Present at the event were the Director Dr. J. B. Patil, Deputy Director Dr. P. J. Deore, all department heads, deans, the college registrar, Dr Prashant Mahajan, all faculty, non teaching staff and students. The event began with captivating performances by the college's music and vocal group, 'Antarnaad'. Their presentations included group songs, instrumental music, flute performances, a powada (ballad), and dazzling dance sequences set to traditional Marathi songs as well.

During the gathering students who had excelled and been selected in various sports at national, state, and university levels were felicitated. This included students for boxing, cricket, fencing, athletics, volleyball, football, shooting, and national yoga competitions. The audience and students responded with immense appreciation, dancing along to dances performed to hit film songs, as well as Punjabi, rap, and remix tracks. The event was compered by students Mansi Bendale, Jagruti Desle, Divya Bhamare, and Jiya Patel, with the vote of thanks given by Shruti Patil.

DEPARTMENT ACTIVITIES



Tribute for Victims of Pahalgam Attack

On Tuesday, 22 April, terrorists indiscriminately fired on tourists in the *Baisaran* Valley area near *Pahalgam*, Kashmir, killing 26 people and injuring 24. The deceased included citizens from Maharashtra, Gujarat, Odisha, Karnataka, and other states. This incident has sparked outrage across the country, and all of India has condemned the attack. The Institute held a tribute for the deceased. A condolence meeting was organized in the main auditorium on the morning of 25 April under the guidance of Director Dr J B Patil and Deputy Director Dr P J Deore.

Student Editorial Board

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