



R. C. Patel Institute of Technology, Shirpur

(An Autonomous Institute)

Affiliated to DBATU, Lonere (M.S.),
Approved By AICTE, New Delhi and Govt. of Maharashtra (DTE: EN - 5172)
Accredited by **NAAC 'A'** Grade, Bangalore.

DARPAN

Issue 2022-23



ABOUT RCPIT



R. C. Patel Institute of Technology was set up as a part of the self-powered plans of Shirpur Education Society in 2001 with the objective to erect a truly world-class institute in the rural and tribal area where students from the vicinity would be benefited from the services that match global standards. RCPIT was conceived by visionary leader, Hon. Shri. Amrishbhai R. Patel, former cabinet minister for School Education, Sports and Youth Welfare for the Maharashtra State. The institute has grown at a remarkable pace and become an institute of repute within the country. It is spread on lush green land providing an ambience congenial to the pursuit of high- quality technical education. Every single detail of the institute has been implemented at par with global standards in accordance with the norms of AICTE, New Delhi. The strength of RCPIT lies in its state-of-art Laboratories, IIT Virtual Classrooms & Laboratories, Digital Library, and Supporting Environment.

INSTITUTE VISION

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

INSTITUTE MISSION

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 nation's sustainable development.

DEPARTMENT VISION

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

DEPARTMENT MISSION

- 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.



Prof. Dr. J. B. Patil
Hon. Director

Dear Students, Faculty, Staff, and Esteemed Stakeholders,

It gives me great pleasure to connect with you as we reflect on the first quarter of 2025, spanning January through March. This period has been marked by renewed energy, academic rigor, and vibrant engagement across the R. C. Patel Institute of Technology campus. The beginning of the year saw our community dive wholeheartedly into academic pursuits, research initiatives, and a wide range of co-curricular activities. We successfully organized several insightful workshops and guest lectures, enriching the learning environment and strengthening our industry connections.

Our students demonstrated commendable enthusiasm in both academics and extracurricular participation, while our faculty continued their unwavering commitment to providing quality education and engaging in impactful research. The collective dedication witnessed during these initial months sets a promising tone for the remainder of the year. The seamless collaboration between students, faculty, and staff continues to be the cornerstone of our institute's growth and achievements.

Let us carry this momentum forward and strive for continued excellence in all our endeavours. I am confident that, together, we will achieve even greater milestones in the upcoming quarter.



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.“

Uday Bhartiya Editor



Dear Readers,

It gives me immense pleasure to present this edition of our college newsletter, a reflection of the vibrant academic spirit and the dynamic campus life at R. C. Patel Institute of Technology. This newsletter is not just a collection of events — it is a celebration of the dedication, creativity, and achievements of our RCPIT family.

Over the past months, our students, faculty, and staff have contributed remarkably to academics, innovation, research, and co-curricular activities. Each event, each success story, and every initiative captured in this edition stands as a testament to the passion and hard work that define our institute.

As the Editor, I feel proud to bring together these diverse moments into a single narrative that showcases the true essence of RCPIT — a place where learning meets inspiration, and ideas turn into impactful actions. The collaborative efforts of the entire editorial team, faculty mentors, and enthusiastic students have made this edition possible.

STUDENTS ACHIEVEMENTS



IN THE CURRENT ACADEMIC YEAR STUDENTS OF THE DEPARTMENT HAVE ACHIEVED LAURELS IN VARIOUS CURRICULAR AS WELL AS CO-CURRICULAR & EXTRACURRICULAR ACTIVITIES WITHIN THE INSTITUTE AS WELL AS IN THE EVENTS ARRANGED BY DEPARTMENT, CLUB POLARIS, INSTITUTE, WITHIN THE UNIVERSITY AND IN OTHER UNIVERSITIES OF THE NATION.

INAUGURATION OF DATA POLARIS CLUB :

THE CODING CLUB OF CSE (DATA SCIENCE) & AIML AT R.C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR, NAMED DATA POLARIS, WAS INAUGURATED ON DECEMBER 5, 2022. THE CLUB AIMS TO GUIDE STUDENTS LIKE THE POLARIS STAR BY DEVELOPING BOTH TECHNICAL AND INTERPERSONAL SKILLS THROUGH EVENTS LIKE HACKATHONS AND BOOTCAMPS. THE COMMITTEE CONSISTS OF 31 MEMBERS SELECTED FROM OVER 65 CANDIDATES, DIVIDED INTO FOUR TEAMS: COMMUNICATION, TECHNICAL, MANAGEMENT, AND DIGITAL MEDIA. THE INAUGURATION WAS PRESIDED OVER BY KEY FACULTY AND STAFF, INCLUDING DR. U. M. PATIL, DR. P. J. DEORE, AND DR. AMRUTA BHANDARI.



ML CHAMPIONSHIP HACKATHON INAUGURATION :

DEPARTMENT OF CSE (DATA SCIENCE), AIML AND CLUB DATA POLARIS OF RCPIT, SHIRPUR HAS ORGANIZED 3-WEEKS HACKATHON NAMED "ML CHAMPIONSHIP HACKATHON" IN ASSOCIATION WITH ANALYTICS INDIA MAGAZINE (AIM) AND MACHINEHACK FROM 05TH DECEMBER 2022 TO 23RD DECEMBER 2022. THIS HACKATHON WAS A MACHINE LEARNING CHAMPIONSHIP WHICH INTENSIFIES THE KNOWLEDGE OF MACHINE LEARNING AMONG THE STUDENTS.

TEAM DHANUSH: RUNNER UP IN SMART INDIA HACKATHON :

STUDENTS OF DEPARTMENT HAVE PARTICIPATED IN SMART INDIA HACKATHON. IT WAS A GOVERNMENT ORGANIZED EVENT AND EVENT WAS HELD ON 25TH & 26TH AUGUST 2022 AT NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA.

Team Dhanush Members:

1. Sachin Vinayak Dabhade,
2. Ashwini Avinash Patil,
3. Shivam Kishorilal Yogi,
4. Vedant Nilesh Thakur,
5. Himanshu Kishor Salunke
6. Yash Vinod Raghuwanshi





AVISHKAR:

ADIL BHIKAN KHATIK & MANYAR ABUZAR JAMIL, STUDENTS OF TY B.TECH CSE (DS) ARE WINNERS OF SILVER MEDAL IN HUMANITIES, LANGUAGES AND FINE ARTS - UG CATEGORY IN AVISHKAR 2022 ZONAL LEVEL COMPETITION AT SSVPS, DHULE HELD ON 10TH DECEMBER 2022.

ENGINEERS DAY CELEBRATION:

DEPARTMENT OF CSE (DATA SCIENCE) & AIML CELEBRATED ENGINEERS DAY ON 15TH SEPTEMBER 2022.



DEPARTMENT OF CSE (DS) AND AIML ORGANIZED TWO DAYS "BOOTCAMP" FOR FIRST YEAR STUDENTS:

SECOND YEAR CSE (DATA SCIENCE) STUDENTS ARRANGED A PYTHON AND DATA SCIENCE BOOTCAMP FOR 1ST YEAR AND 2ND YEAR CSE (DATA SCIENCE) STUDENTS. A TWO DAYS BOOTCAMP WAS SUCCESSFULLY CONDUCTED AT AUDITORIUM HALL ON 22ND MAY 2022 AND 29TH MAY 2022 RESPECTIVELY.

CONVERGES -2023" BRAIN HEIST:

IT WAS CONDUCTED IN THE ACADEMIC YEAR 2022-23 AND THE "BRAIN HEIST" WAS HOSTED BY THE CSE (DS) AND AIML DEPARTMENT. IN ALL, 256 STUDENTS FROM ALL BRANCHES COMPETED IN 56 TEAMS. THERE WERE THREE ROUNDS IN THIS COMPETITION. THE FIRST ROUND WAS QUIZ COMPETITION, THE SECOND ROUND WAS CODE DEBUGGING (SOLVE PROBLEM STATEMENT WITHIN TIME LIMIT), AND THE THIRD ROUND WAS RIDDLE SOLVING. THE LAST ROUND'S WINNERS WERE SELECTED AT THE END.



GRAIN DONATION AT THALNER SCHOOL:

DEPARTMENT OF CSE (DATA SCIENCE) & AIML DONATED GRAIN TO NEEDY DEAF AND DUMP SCHOOL, THALNER ORGANIZED BY SAMARPAN CLUB OF RCPIT, SHIRPUR ON 24TH NOVEMBER 2022.



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ACADEMIC RESULTS:

The results of CSE (Data Science) and AIML Department for the academic year 2022-23 are excellent for SY BTech and TY BTech

Table 1: All clear result of SY BTech CSE (Data Science) Department

68	TOTAL NO. OF STUDENTS APPEARED IN THE EXAMINATION
56	TOTAL ALL CLEAR STUDENTS
6.59	MEAN OF CGPA OF ALL SUCCESSFUL STUDENTS
6.55	MEAN OF SGPA OF ALL SUCCESSFUL STUDENTS
82.35%	PERCENTAGE RESULT

ACADEMIC PERFORMANCE OF 2022-23



Table 2: All clear result of TY BTech CSE (Data Science) Department

68	TOTAL NO. OF STUDENTS APPEARED IN THE EXAMINATION
67	TOTAL ALL CLEAR STUDENTS
7.85	MEAN OF CGPA OF ALL SUCCESSFUL STUDENTS
8.19	MEAN OF SGPA OF ALL SUCCESSFUL STUDENTS
98.52%	PERCENTAGE RESULT

ACADEMIC PERFORMANCE OF 2022-23

FACULTY ACHIEVEMENTS



Prof Manisha S. Patil (AWS Academy Approved Instructor)

Aws Academy is empowering higher education institutions to prepare students for industry recognized certifications and careers in the cloud.

Conference Paper: Automatic Pain Recognition Techniques: A State-of-the Art Review.

Journal Paper Publication: Infant's MRI Brain Tissue Segmentation Using Integrated CNN Feature Extractor And Random Forest

Table 3: All clear result of SY BTech AIML Department

57	TOTAL NO. OF STUDENTS APPEARED IN THE EXAMINATION
45	TOTAL ALL CLEAR STUDENTS
6.05	MEAN OF CGPA OF ALL SUCCESSFUL STUDENTS
5.86	MEAN OF SGPA OF ALL SUCCESSFUL STUDENTS
78.94%	PERCENTAGE RESULT

**ACADEMIC PERFORMANCE OF
2022-23
(AUTONOMOUS)**

