

DINAKRUSHANA COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

Department Profile | Academic Year 2026–2027

Learn • Innovate • Solve • Lead

Department	Department of Computer Science
Academic Year	2026–2027
Academic Focus	Computer Science education, programming, practical learning and emerging technologies
Core Approach	Theory + Laboratory Practice + Projects + Seminars + Technical Activities
Contact	https://www.dinakrushnacollege.org.in

1. About the Department

The Department of Computer Science is committed to providing quality undergraduate education with a strong balance of theoretical understanding and practical application. The department aims to develop students who can understand computing concepts, write effective programs, analyse problems, design solutions and use technology responsibly. Learning is supported through classroom teaching, laboratory practice, project-based activities, seminars, workshops, technical competitions and continuous academic mentoring.

The department encourages students to explore contemporary areas of computing such as Artificial Intelligence, Data Science, Cyber Security, Cloud Computing, Internet of Things and Software Development, while maintaining strong foundations in programming, algorithms, databases and computer networks.

2. Vision

To become a centre of excellence in Computer Science education by providing a strong academic foundation, practical learning opportunities and a culture of innovation, while developing technically competent, creative and ethically responsible graduates who can contribute effectively to society and the rapidly evolving IT industry.

3. Mission

- To provide quality education in Computer Science through an updated curriculum, effective teaching methodologies and continuous academic improvement.
- To strengthen theoretical knowledge and practical skills through hands-on laboratory experience, project-based learning and exposure to modern computing technologies.
- To develop programming, analytical thinking, problem-solving and computational skills needed to address academic, professional and societal challenges.
- To encourage innovation, creativity, research aptitude and the application of emerging technologies such as Artificial Intelligence, Data Science, Cyber Security, Cloud Computing and the Internet of Things.
- To organize seminars, workshops, guest lectures, technical competitions and skill-development programmes that enhance students' technical competence and professional confidence.
- To promote ethical values, social responsibility, teamwork, leadership and effective communication.

- To prepare students for higher education, competitive examinations, entrepreneurship and careers in technology-oriented fields through career guidance and industry-oriented learning.
- To foster lifelong learning and continuous skill enhancement so that graduates remain adaptable to the changing technological landscape.

4. Departmental Objectives

- Build strong conceptual foundations in Computer Science and related disciplines.
- Develop programming, algorithmic thinking, logical reasoning and problem-solving abilities.
- Provide regular practical exposure through computer laboratory sessions and hands-on assignments.
- Encourage project work, innovation, research orientation and technology-based problem solving.
- Improve communication, presentation, teamwork, leadership and professional skills.
- Create awareness about higher education, internships, competitive examinations, entrepreneurship and career opportunities.
- Promote responsible, ethical and socially useful applications of computing technology.

5. Academic and Practical Learning

The department follows a learner-centred approach that combines classroom instruction with practical work and continuous assessment. Students are encouraged to apply concepts through laboratory exercises, programming practice, assignments, mini-projects, seminars and demonstrations.

- Programming and problem solving
- Data structures and algorithms
- Database management and SQL
- Computer networks and communication
- Operating systems and system programming
- Web technologies and software development
- Data analysis and computational applications
- Emerging technologies and responsible use of Artificial Intelligence

6. Laboratory and Learning Facilities

The Computer Science Department provides a practical learning environment through its computer laboratory and associated teaching resources. The laboratory is used for programming practice, database work, networking exercises, software development, project demonstrations and other curriculum-based practical sessions.

- Computer laboratory for regular practical classes
- Programming and software-development environment
- Internet-enabled learning and online resources, subject to institutional availability
- Project and presentation facilities
- Teaching aids and digital learning resources
- Routine maintenance, software updates and equipment verification

7. Student Development and Technical Activities

- Programming and coding workshops
- Seminars and guest lectures on emerging technologies

- Coding competitions and technical quizzes
- Poster presentations and project exhibitions
- Hackathons and innovation-oriented activities
- Project guidance, demonstrations and viva-voce preparation
- Career guidance and awareness programmes
- Alumni/industry interaction and skill-development sessions, wherever available

8. Student Outcomes

Outcome Area	Departmental Outcome
Technical Knowledge	Students gain sound knowledge of Computer Science concepts, programming, algorithms, databases, networks, software development and emerging technologies.
Problem Solving	Students develop logical, analytical and computational thinking skills for solving real-world problems.
Practical Skills	Students learn to apply theoretical concepts through laboratory work, practical assignments and projects.
Innovation & Research	Students are encouraged to explore new ideas, undertake technical projects and develop research aptitude.
Career Readiness	Students develop technical, communication and professional skills relevant to employment and higher education.
Lifelong Learning	Students are motivated to pursue higher studies, certifications, competitive examinations and continuous skill development.
Ethics & Responsibility	Students understand responsible technology use, data security, professional conduct, teamwork and social responsibility.
Entrepreneurship	Students are encouraged to develop creativity and technology-based solutions that can contribute to employment and societal development.

9. Annual Academic and Departmental Plan – 2026–2027

Month	Planned Activities
July	Student orientation, curriculum introduction, laboratory rules, mentoring and departmental action planning.
August	Programming Fundamentals Workshop covering C/Python, algorithmic thinking and problem solving.
September	Internal assessment, laboratory evaluation, assignments, tutorials and student mentoring.
October	Seminar/guest lecture on Artificial Intelligence, Data Science, Cyber Security, Cloud Computing or IoT.
November	Coding competitions, technical quizzes, poster presentations and assignment/project presentations.
December	Mid-year academic review, practical examinations, faculty review and student feedback.
January	Career guidance on higher education, internships, competitive examinations, entrepreneurship and placements.
February	Technical workshops, expert/alumni interaction, project guidance and soft-skill development.
March	Project demonstrations, seminar presentations, viva-

	voce, practical tests and revision.
April	Laboratory maintenance, software updates, equipment verification and preparation for the next session.
May	Result analysis, departmental review, stakeholder feedback and quality-improvement planning.
June	Annual report, activity documentation, budget proposal and academic action plan for the next session.

10. Faculty Profile

The department is supported by qualified and dedicated faculty members who contribute to teaching, laboratory instruction, mentoring, project guidance and student development.

Sl. No.	Name	Designation	Area / Responsibility
1	Mr. Bibhu Priyabrata Dutta	Lecturer	MCA, M.Tech
2	Miss Rashmirekha Bhoi	Lecturer	MCA

11. Departmental Priorities

- Quality teaching and continuous academic improvement
- Effective utilization and maintenance of laboratory facilities
- Practical and project-based learning
- Student participation in technical and co-curricular activities
- Exposure to emerging technologies
- Career readiness, higher education and entrepreneurship
- Ethical, responsible and socially beneficial use of technology

12. Contact and Website Information

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