

DEPARTMENT ANNUAL REPORT 2023-24

1. Introduction about Department

The Department of Computer Science and Applications was founded in 2012 with the introduction of the BSc Computer Science program. In 2013, the department expanded by offering the BCA program. Initially, both courses had a sanctioned intake of 30 students each. However, over time, the department has successfully secured additional seat approvals from the university, enabling the admission of more students beyond the original capacity

Courses offered: BCA, BSc Computer Science

Number of Students : 233

| Year of adm | BSc CS | BCA |
|-------------|--------|-----|
| 2021 | 40 | 40 |
| 2022 | 32 | 54 |
| 2023 | 29 | 38 |

Teacher Details:

| FACULTY LIST 2023-2024 | | |
|------------------------|-----------------------|---------------------------|
| NAME | QUALIFICATIONS | DESIGNATION |
| 1. Mr. Vinod Chandran | MCA, PGDBM, NET | HoD & Associate Professor |
| 2. Ms.Kavitha Santhosh | MCA , NET | Assistant Professor |
| 3. Mr.Deepak M | ME CSE, NET | Assistant Professor |
| 4. Ms.Mary Joseph | MCA, MBA | Assistant Professor |
| 5. Ms.Priyanka G | MCA, MPhil | Assistant Professor |
| 6. Ms.Amulia P.M | MTech, NET | Assistant Professor |
| 7. Ms.Gayathri A | MSc. CS, NET | Assistant Professor |
| 8. Ms.Girly Antony | MSc-Mathematics,B.Ed. | Assistant Professor |
| 9. Ms.Mary P.K | MSc. CS | Assistant Professor |
| 10. Ms Nidhy S Ravi | MCA, MTech | Assistant Professor |
| 11. Mr. Denny David | MCA | Assistant Professor |
| 12. Mr. Jithin Babu | MCA , NET | Assistant Professor |
| 13. Mr. Joel Joseph | MCA | Lecturer & Lab Instructor |
| 14. Ms. Rima K Ouseph | MCA | Lecturer & Lab Instructor |

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| | | |
|-----------------------|-----------|---------------------|
| 15. Mr. Vivek S Varma | MSc. CS | Assistant Professor |
| 16. Ms. Vidya S Mony | MTech CSE | Assistant Professor |

2. Result Details

BSc Computer Science 2021-24

| | |
|--|------------|
| Number of students | 40 |
| Number of students who achieved the Degree | 14 |
| Pass Percentage | 35% |

BCA 2021-24

| | |
|--|------------|
| Number of students | 40 |
| Number of students who achieved the Degree | 22 |
| Pass Percentage | 55% |

3. Major Events and Activities Conducted

The Department of Computer Science and Applications has been actively involved in a variety of association activities designed to enhance students' knowledge, skills, social service and overall growth. These initiatives include technical talks, seminars, workshops, outreach programmes and interactive sessions with industry experts.

Below is a summary of the key events organized by the department during 2023-24:

- Advanced Research Domains and Its Implementation in Computer Science (01-06-2023)**
This FDP aimed to enhance the knowledge of faculty in the latest research areas of computer science and their practical applications. The event was part of the IQAC FDP Cell's initiatives focused on developing research-oriented teaching strategies. Dr Sajeev J, HOD CS, S N Institute of Technology , Kollam was the resource person.
- Samtva (22-06-2023)**
A gender equality initiative designed to promote awareness and foster inclusivity within the department. The program encouraged discussions on creating balanced and equitable environments for all genders.
- Prabodhan (12-07-2023)**
Another event centered on gender equality, Prabodhan emphasized the importance of equitable practices in both academic and professional settings. It included interactive sessions on addressing gender-based challenges.
- Teachers' Day (05-09-2023)**
A celebration was held to honour educators, acknowledging their invaluable contributions to shaping students' futures. The program featured a variety of activities to express gratitude to the department's faculty. As a unique highlight, special classes were conducted by students, showcasing their appreciation and admiration for their teachers.
- EVS Visit (21-07-2023)**
As part of the IQAC Environmental Education initiative, an experiential learning program was organized where students visited Vagamon, an environmental conservation site. The

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visit provided them with an opportunity to gain practical insights into environmental science and understand hands-on approaches to conservation.

- **Hasthadhan (27-07-2023)**

This outreach program aimed to promote values related to professional ethics and social responsibility. Participants engaged in discussions on how computer science professionals can contribute to the well-being of society. As part of the initiative, the group visited an Anganwadi, where they donated utensils and essential items for children.

- **Computer and IT Industry (08-09-2023)**

A career counseling session that provided insights into the IT industry. Experts shared their experiences and guidance on career opportunities, organized by the Placement Cell.

- **Technical Writing in Computer Science (15-07-2023)**

This FDP aimed at enhancing faculty skills in writing clear and effective technical documents. Organized by the IQAC FDP Cell, the session focused on promoting clarity in technical communication. Dr. Bindu, Head of the Department of Computer Science at S N College Cherthala, conducted the session.

- **Self Ignite (04-10-2023)**

Focused on professional ethics and social responsibility, this program encouraged students to adopt ethical practices in their personal and professional lives. It included motivational sessions on personal development.

- **Robocat (15-06-2023)**

A soft skills initiative under the IQAC Training initiatives. This program engaged students in teamwork and problem-solving activities, promoting collaboration in technical environments.

- **E-Waste Collection (25-10-2023)**

As part of the IQAC Environment Education initiative, this program focused on responsible electronic waste management. It encouraged participants to contribute to environmental sustainability through recycling.

- **E-Smart (10-10-2023)**

Another initiative promoting environmental awareness, E-Smart educated students on green practices and sustainability within the tech industry. It was part of outreach efforts to extend learning beyond campus.

- **Puzzle Time (02-11-2023)**

This initiative, organized by IQAC LCE, encouraged students to apply problem-solving methodologies through interactive puzzles. It helped develop analytical thinking and creative approaches to complex problems.

- **Collegian Talk (01-11-2023)**

An alumni engagement event where former students returned to share their

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experiences and career insights. It provided current students with networking opportunities and career guidance.

- **Training on Python Django (01-11-2023)**

A best practices initiative under Naipunnym, this workshop focused on web development using Python Django. Students gained hands-on experience building web applications.

- **ACSA Inauguration (08-11-2023)**

The official launch of the Association of Computer Science and Applications (ACSA), fostering participative learning through student-led initiatives. The event marked the start of various academic activities led by the association.

- **Linux Workshop (09-11-2023)**

Organized under the IQAC LCE initiatives, this ICT skill development workshop introduced students to the Linux operating system. Participants learned basic system administration and command-line operations.

- **Internet Day Celebrations (30-10-2023)**

A commemorative event recognizing the importance of the internet in modern life. Discussions centered on the role of the internet in education, business, and communication.

- **Coding Competition (17-11-2023)**

A problem-solving initiative that challenged students to demonstrate their coding skills. Organized by IQAC LCE, the event aimed to promote computational thinking and programming efficiency.

- **Python Workshop (28-11-2023)**

Another participative learning initiative under IQAC LCE, this workshop provided in-depth training on Python programming. Students learned about Python's applications in data analysis and machine learning.

- **Computer Literacy Day (04-12-2023)**

A commemorative event to promote digital literacy. The program included activities aimed at enhancing students' digital skills and understanding the importance of technology in education.

- **Chitrakan (13-11-2023)**

An outreach program focused on social issues, ethics, and human values. Students were encouraged to express their ideas on these topics through creative activities like drawing and painting.

- **Cyber Security Day (30-11-2023)**

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A commemorative event highlighting the importance of cybersecurity. Participants were educated on data protection and privacy issues, emphasizing ethical practices in the digital space.

- **Alumni Interaction (20-12-2023)**

A platform for alumni to interact with current students, offering insights into career development. This event strengthened the department's alumni network and provided students with mentorship opportunities.

- **Career Guidance by CSA (22-01-2024)**

A career counseling session organized by the department. Industry experts provided guidance on the various career paths available in computer science, helping students make informed decisions.

- **SkillSprint (18-01-2024)**

A placement-oriented initiative, SkillSprint helped students prepare for job interviews and develop the necessary skills to succeed in the IT industry.

- **Debate (29-11-2023)**

A language and communication skill development event, where students engaged in debates on current topics. It aimed to enhance public speaking and critical thinking skills.

- **Seminar on Cyber Security - Computer Day Celebration (15-02-2024)**

A seminar focused on the importance of cybersecurity in the modern digital world. It was organized as part of the department's commemorative celebrations on Computer Day.

- **Investor Awareness Program (21-02-2024)**

A participative learning initiative under IQAC LCE. This program educated students on investment strategies, promoting financial literacy and responsible decision-making.

- **Vinjan 2k24 - National Research Conference (17-02-2024)**

A research conference under the National Research Foundation (NRF). This event provided a platform for faculty to present their research and engage in knowledge sharing with peers from across the country.

- **Harmony Hour (04-03-2024)**

A life skill initiative organized by IQAC Training initiatives. The event included workshops on stress management, work-life balance, and personal well-being.

- **Coaching Program on Language Proficiency, Training & International Exams (06-03-2024)**

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A competitive exam training program that prepared students for international language proficiency exams. It aimed at improving students' chances of success in global job markets.

- **EVS Visit (05-04-2024)**

A participative learning initiative where students visited an environmental conservation site to better understand the impact of environmental issues and the importance of sustainability in technology.

- **Voting Rights Awareness Program (12-04-2024)**

An event focused on raising awareness about constitutional obligations, specifically voting rights. It aimed to encourage students to actively participate in the democratic process.

- **Pi Day Celebration (22-03-2024)**

A celebration of Pi Day with various problem-solving activities related to mathematics and sports. The event aimed to make learning mathematics fun and engaging for students.

- **Industry Visit (28-02-2024)**

A participative learning initiative where students visited an industry site to gain practical insights into how computer science concepts are applied in real-world settings.

- **Study Tour of BSc Computer Science (10-03-2024)**

A study tour organized for BSc Computer Science students to enhance their practical understanding of the industry. Students visited various companies to learn about industry trends and technologies.

- **Industrial Visit BSc Computer Science (10-02-2024)**

Another industrial visit for BSc Computer Science students, providing hands-on experience in understanding the applications of computer science in industry environments.

- **Study Tour - BCA (20-03-2024)**

A study tour for BCA students, where they visited various industries to understand real-world applications of their classroom learning.

- **Soulful Self (22-04-2024)**

A life skills program that focused on emotional intelligence and personal well-being. It aimed to help students manage stress and develop a balanced approach to their personal and professional lives.

- **Talk Masters (29-04-2024)**

A language and communication skills initiative that encouraged students to improve

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their public speaking abilities. Participants engaged in various activities to enhance their confidence in communicating.

- **Expertz Lab's Career Guidance Seminar (13-09-2023)**

A career counseling event where industry professionals from Expertz Lab provided guidance on career planning and skill development in IT. The event was part of the department's ongoing career development initiatives.

- **Prajna 2K24 (22-04-2024)**

A participative learning initiative, Prajna 2K24 provided students with opportunities to engage in research and innovation projects. It aimed to foster a culture of inquiry and creativity in the department.

Best Practices

1. Yantrika, the IT Fest

Yantrika shines as a symbol of excellence within the department, celebrating innovation, talent, and collaboration. It offers students a dynamic platform to showcase their technical skills, creativity, and problem-solving abilities through a range of competitions, workshops, and exhibitions. With its energetic atmosphere and diverse events, Yantrika cultivates a vibrant learning environment that encourages students to explore new ideas and push the boundaries of their expertise in Information Technology. Yantrika's ongoing success highlights the department's commitment to fostering holistic growth and an innovative mindset among students.

Yantrika 2K24 – IT Fest (14 March): Organized by the IT Club, Yantrika 2K24 featured inter-collegiate competitions, promoting healthy competition and collaboration across institutions.

2. E-Smart: Empowering Communities and Promoting Sustainability

E-Smart, spearheaded by CARE, the department's social service club, is a transformative initiative that reaches beyond the campus to make a meaningful impact on local communities. The program provides valuable training sessions aimed at skill development and empowerment, with a particular emphasis on enhancing digital literacy. In addition to these training efforts, E-Smart spearheads E-Waste management initiatives that advocate for environmental sustainability and responsible disposal practices. Through its commitment to social welfare and environmental stewardship, E-Smart embodies CARE's mission to create lasting change in society.

Initiatives:

- **E-Smart (10-Oct-2023):**

Another outreach initiative, E-Smart educated students on green practices and sustainability within the tech industry, extending learning opportunities beyond the classroom and into the community.

- **E-Waste Collection (25-Oct-2023):**

In alignment with the IQAC Environment Education initiative, this program focused

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on responsible electronic waste management. It encouraged participants to contribute to environmental sustainability through recycling efforts.

Distinctiveness

TECHBLAZE: Igniting Intellectual Curiosity in Information Technology

As a flagship initiative of the IT Club, TECHBLAZE sparks intellectual curiosity through a diverse array of engaging events. The program features seminars, workshops, and webinars that equip students with cutting-edge insights into the ever-changing field of Information Technology. TECHBLAZE acts as a bridge, connecting theoretical knowledge with practical application, and empowering students with hands-on experience in contemporary IT domains. Additionally, it provides a unique platform for students to interact with industry experts, fostering invaluable networking opportunities and mentorship. By nurturing a culture of continuous learning and innovation, TECHBLAZE drives students toward excellence in the dynamic landscape of technology.

4. Extension Activities

1. *E-Waste Collection: A Commitment to Environmental Responsibility*

E-waste collection is a vital initiative focused on reducing the environmental impact of discarded electronic devices. Through organized efforts and awareness campaigns, communities are encouraged to responsibly dispose of outdated electronics. Collection centers play a key role in ensuring the proper recycling and disposal of e-waste, preventing harmful chemicals and materials from polluting the environment. By participating in e-waste collection programs, individuals actively contribute to conserving natural resources and minimizing pollution. This collective effort promotes sustainability and fosters a culture of environmental stewardship, paving the way for a cleaner and healthier planet for current and future generations.

2. *E-Smart: Empowering Communities Through Engagement*

E-Smart, an initiative led by CARE, the social service club, stands as a testament to community engagement and empowerment. This project meticulously organizes training programs that extend beyond campus confines, benefiting a diverse range of communities. These programs aim not only to impart valuable skills but also to promote social responsibility and inclusivity. By reaching out to external entities, E-Smart embodies CARE's commitment to serving society and driving positive change. Through its dedication to social service, E-Smart fosters a culture of collaboration and compassion, enhancing the lives of individuals far beyond campus boundaries.

5. Collaborations

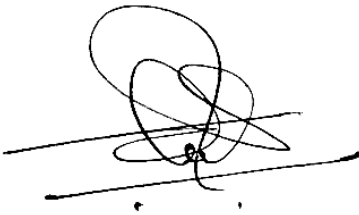
1. MoU was signed with Logiccraft, Manapuram P O Cherthala to conduct a IT training. It was signed in January 16, 2024
2. MoU was signed with KELTRON, Thiruvananthapuram to conduct a IT course training. It was signed in July 2, 2024

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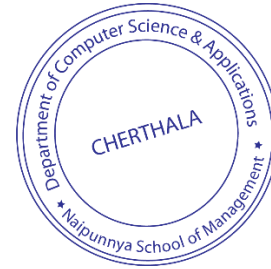
3. MoU was signed with Rabbit Square, Muvattupuzha to conduct ROBOCRAFT , a training program on Robotics . It was signed in June 16,2023
4. MoU was signed with Sristhi Innovative, Trivandrum to conduct a IT training and Soft skill training program. It was signed in September 29, 2023

6. Achievements

The department achieved significant milestones in research, publications, and student success. Notably, it organized the National Research Conference, Vijnan 2k24, held at Naipunnya Cherthala on February 17, 2024. In line with NAAC regulations, the conference papers were published in a UGC CARE-listed journal. Additionally, 15 faculty members and students contributed research papers to the renowned *Journal of Nonlinear Analysis and Optimization: Theory & Applications*, a UGC CARE-approved print journal published by Naresuan University. This journal, covering various scientific disciplines, is issued semi-annually and has an ISSN of 1906-9685. Furthermore, the department celebrated the achievement of sixteen graduating students who secured admissions to postgraduate MCA programs at various reputed colleges through entrance exams.



Head of the Department
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