



DAYANANDA SAGAR  
UNIVERSITY

DSU live the dream



DECADES LEGACY  
IN EDUCATION & HEALTHCARE



# Unleash Your Potential in Tech!

**BACHELOR OF  
COMPUTER APPLICATIONS  
(BCA)**

**SCHOOL OF COMPUTER APPLICATIONS**

# Great Legacy



**Late Shri R. Dayananda Sagar**



**Late Dr. Chandramma Dayananda Sagar**

The Founder President of Dayananda Sagar Institutions, Late Shri R. Dayananda Sagar and Late Dr. Chandramma Sagar had a great vision: Education for all sections of society. They set up the Mahatma Gandhi Vidya Peetha Trust (MGVP); which started as a one-college campus and is today a multi location destination to thousands of young men and women who walk into the Dayananda Sagar campuses in pursuit of a dream and march out as confident citizens, ready to absorb the challenges and opportunities of an exciting new world. Dayananda Sagar Institutions, played an important part in creating history enabling easy access to good and quality education by all, winning the hearts of many, far and wide, reflecting the legacy of Dayananda Sagar University.



**Dr. D. Hemachandra Sagar**  
**Chancellor and Founder**



**Dr. D. Premachandra Sagar**  
**Pro Chancellor and Founder**

They are thinkers, planners, and institution builders. By profession they are medical doctors, enriched with insights gained from hands-on work experience, learning and sharing through interaction. Accomplished and widely travelled, they bring with them worldly wisdom in all that they do.

## About DSU

Dayananda Sagar Institutions founded in the 60's by one such visionary, late Sri Dayananda Sagar committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this adorable legacy and inspired by its own milestones, meeting the needs of quality higher education in this part of the world. This main campus is thoughtfully planned on 130 acres, with a picturesque site and a blossoming green environment, making it free from city crowds and pollution. Being a completely self-contained campus adjacent to Harohalli (45kms from Bengaluru city), it is equipped with all the modern state-of-the-art infrastructure, creating a conducive environment for progressive experiential learning and transforming you into next-generation innovators, explorers, leaders, and researchers.



# About School of Computer Applications

The School of Computer Applications offers a dynamic eco-system for study, research and professional growth for the faculty and the students. It strives to groom its students into competent IT professionals, researchers and entrepreneurs. The school of Computer Applications was established in the academic year 2016-17 with 3 year BCA program and 2 year MCA program in the academic Year 2021-22 to nurture fresh talent in the field of Information Technology, equipping them with a plethora of skills to choose an area of interest at an early age. The three-year BCA program offered by the school firmly believes that theoretical knowledge supported by ample in-depth practical exposure is required to meet the challenges of this ever-changing field. As the world looks towards India for fresh and energetic talent in the field of IT, the Schools mission is to shape the next generation of IT professionals with a concrete foundation, employable skills, and a touch of human ethical values.

## VISION

To develop innovative and skilled computer professionals through cutting-edge research, education, and entrepreneurial initiatives, fostering leadership qualities to address the evolving challenges of emerging technologies and contribute to societal advancements nationally and globally.

## MISSION

- ◆ To deliver cutting-edge education and research opportunities that drive innovation in computer science and applications.
- ◆ To maintain state-of-the-art facilities and attract internationally recognized faculty to support advanced learning and research.
- ◆ To continuously update our curriculum to reflect the dynamic landscape of emerging technologies and industry needs.
- ◆ To foster strong partnerships with industry and the community, enhancing practical experiences and entrepreneurial initiatives.
- ◆ To develop graduates who are not only skilled and innovative computer professionals but also ethical leaders, equipped to tackle global and national challenges and contribute to societal advancements.

## Dean's Message

*"The best way to predict the future is to create it."*

– Peter Drucker

Welcome to the School of Computer Applications, where we are committed to fostering future leaders in computer science through a holistic and innovative educational approach. Our mission is to provide students with a rigorous curriculum, world-class facilities, and unparalleled support to excel in academia, research, and industry. Our comprehensive curriculum, designed to stay at the forefront of technological advancements, blends traditional and contemporary teaching methods, including lectures, hands-on labs, workshops, and industry collaborations.

As Steve Jobs once said, "Innovation distinguishes between a leader and a follower," and we strive to instil this spirit of innovation in our students. Our dedication to research and innovation is reflected in our state-of-the-art facilities and active engagement in pioneering projects, offering students ample opportunities to participate in research groups, attend conferences, and publish their findings. We echo Albert Einstein's belief that "Education is not the learning of facts, but the training of the mind to think," by emphasizing critical thinking, problem-solving, and creativity.

Additionally, our world-class infrastructure, featuring modern classrooms, well-equipped laboratories, a vast library, and collaborative spaces, creates an optimal learning environment. Our robust Training and Placement Cell bridges the gap between academia and industry, providing extensive training programs, workshops, internships, and a wide array of placement opportunities. With a consistent record of high placement rates and successful alumni, we are reminded of Henry Ford's words, "Coming together is a beginning; keeping together is progress; working together is success." We invite you to explore the exciting opportunities at the School of Computer Applications and achieve your aspirations in this dynamic field. Together, let's create a brighter future through innovation, research, and excellence in computer applications.

**Dr. S. Senthil**

*Professor and Dean, School of Computer Applications  
Dayananda Sagar University, Bengaluru*

# Bachelor of Computer Applications (BCA)

The BCA program is meticulously crafted to equip students with a robust foundation in computer applications, blending theoretical insights with hands-on practical experience. Spanning over three years, the curriculum is designed to meet the dynamic demands of the IT industry, ensuring that graduates are well-prepared to tackle real-world challenges in software development, database management, and computer networks.

In today's fast-paced technological landscape, businesses and organizations rely heavily on innovative solutions to drive growth and efficiency. The BCA program addresses these needs by immersing students in cutting-edge technologies and industry-relevant practices. Through rigorous coursework, projects, and internships, students not only gain technical proficiency but also develop critical thinking and problem-solving abilities essential for success in diverse IT roles.

Beyond technical skills, the program emphasizes the development of soft skills such as communication, teamwork, and adaptability. Students learn to collaborate effectively in multidisciplinary teams, present their ideas confidently, and adapt quickly to new technologies and methodologies.

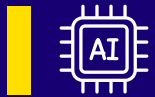
**Duration : 3 years (6 semesters)**



## Eligibility Criteria :

Pass in PUC/10+2 with at least 45% marks (40% in case of candidate belonging to SC/ST category) from any recognized Board/Council of or any other qualification recognized as equivalent there to.

## Electives Offered



**AI, ML &  
Data Science**



**Cyber Security &  
Cloud Computing**



**Mobile & Web Application  
Development**



# Unique Advantages of School of Computer Applications

- ◆ Dynamic curriculum aligned with current industry demands and trends.
- ◆ Regular guest lectures, technical seminars, and workshops by industry experts and academicians.
- ◆ Skill development programs embedded within the curriculum to enhance employability.
- ◆ State-of-the-art computer labs equipped with high-performance systems for optimal learning experiences.
- ◆ Cutting-edge digital classrooms facilitating interactive and engaging teaching methods.
- ◆ ICT tools integrated into teaching to enhance learning efficiency and accessibility.
- ◆ Self-directed learning encouraged to foster independent thinking and creativity.
- ◆ Active training and placement cell dedicated to securing top-tier job placements.
- ◆ Emphasis on project-based learning to bridge theoretical knowledge and practical application.
- ◆ One-to-one student mentoring providing personalized academic and career guidance.
- ◆ Industrial visits to leading companies offering exposure to diverse professional environments.
- ◆ Soft skills training programs designed to develop communication, teamwork, and leadership abilities.
- ◆ Strong alumni network offering mentorship, networking, and career opportunities.
- ◆ Regular participation in hackathons promoting innovation, teamwork, and problem-solving skills.



## Programme Outcomes

- ◆ To equip students with a strong foundation in computer applications, enabling them to analyze, design, and develop innovative software solutions to meet industry and societal needs.
- ◆ To develop technical proficiency in programming languages, database management, networking, and emerging technologies, fostering adaptability to advancements in the IT sector.
- ◆ To instill critical thinking, problem-solving abilities, and teamwork skills, preparing students for multidisciplinary challenges and professional excellence.
- ◆ To nurture ethical practices, effective communication, and lifelong learning, empowering students to contribute responsibly to the global computing community.



# Exciting and Diverse Career Avenues

**Software Developer**

**IT Analyst**

**Web Developer**

**Database Administrator**

**Network Administrator**

**Cybersecurity Analyst**

**Data Analyst**

**Mobile Application Developer**

**UI/UX Designer**

**Digital Marketing Specialist**

## Where Can BCA Take You?

**Explore the Leading Industries Seeking Your Expertise!**

- ◆ Information Technology and Services
- ◆ Banking, Financial Services, and Insurance (BFSI)
- ◆ Healthcare IT
- ◆ Telecommunications
- ◆ Education Technology (EdTech)
- ◆ Software Development & Consulting
- ◆ E-commerce and Retail
- ◆ Media and Entertainment
- ◆ Cloud Computing and Data Analytics
- ◆ Gaming and Animation

# Faculty

The School of Computer Applications has highly experienced and accomplished faculty members. Students are consistently taught new-age, industry-relevant skills to stay ahead in the field. The faculty adopts a variety of innovative teaching-learning methods to ensure effective and engaging education.

**The following are some of the teaching and learning methods being used by the faculty members at the university.**

- ◆ Face-to-face lectures enriched with audio-visual aids
- ◆ Project-Based Learning (PBL)
- ◆ Workshops, group discussions, debates, and presentation
- ◆ Demonstrations and hands-on learning
- ◆ Laboratory sessions, fieldwork, and workshops
- ◆ Industry visits for practical exposure
- ◆ Seminars on relevant topics
- ◆ Collaborative group exercises
- ◆ Capstone projects and project exhibitions
- ◆ Participation in technical events and competitions



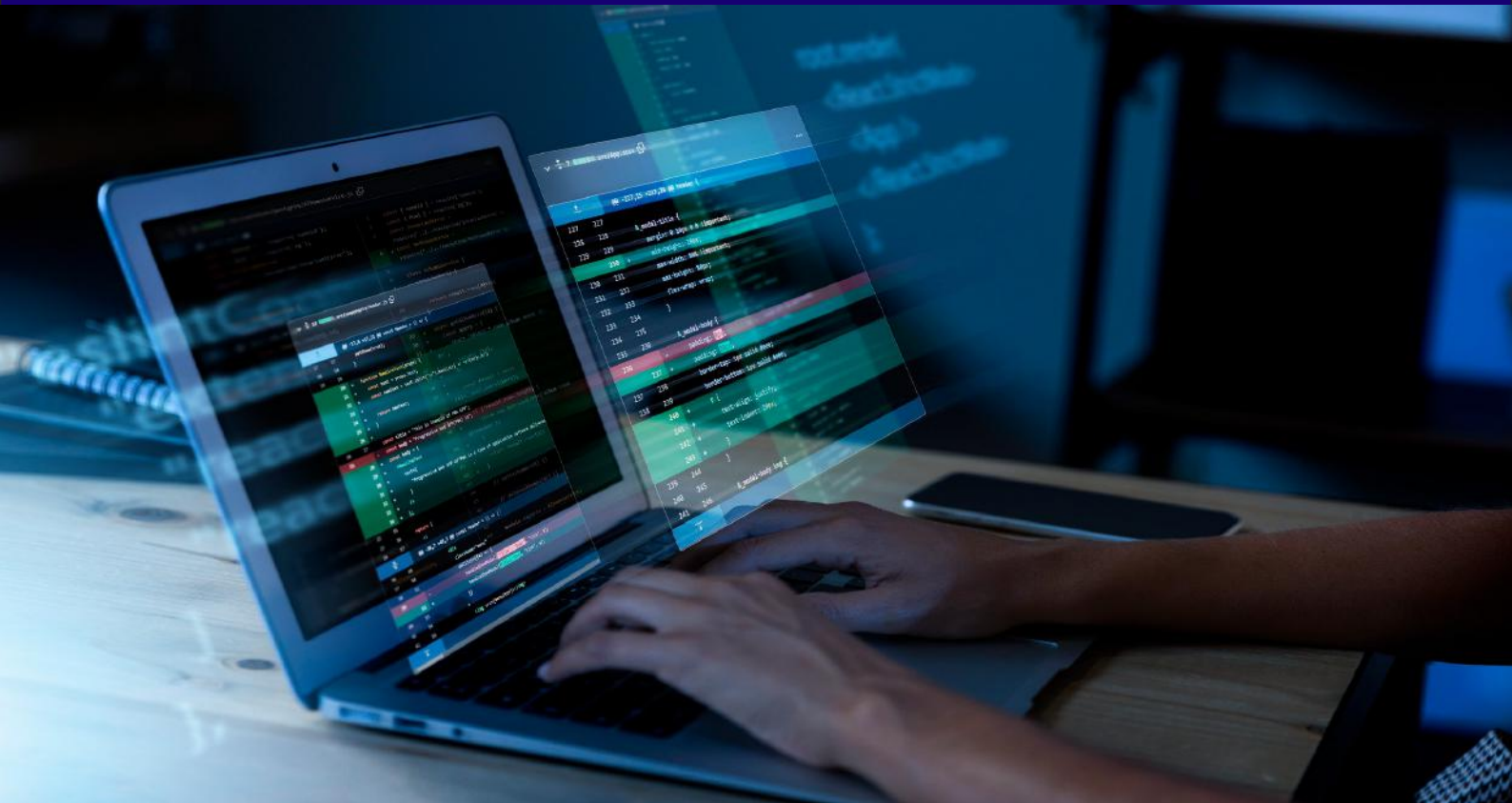
## Placements

Over the years, BCA students at DSU have been successfully placed in many reputed companies and organizations. DSU offers a unique placement and training program that not only helps students secure excellent opportunities but also prepares them to build successful careers for the future.

**Some of the reputed companies where Computer Applications students have been placed are:**



Mindtree



# Campus Features



Incubation Centre



State-of-the-Art Classrooms



Wifi Enabled Campus



Seminar Halls



Sport Facilities



CIL-Centre for Innovation



Foreign Language Certification



Training Centre



Top Class Library Facility



Hostel Facilities



Infirmary



Well-Equipped Lab Facilities



Research Centre



Food Court



Student Parking Facility



**DSU City Innovation Campus** : Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Hosur Road, Bengaluru, Karnataka - 560068

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