



DAYANANDA SAGAR  
UNIVERSITY

DSU live the dream



# Master the Future of Technology!

**MASTER OF  
COMPUTER APPLICATIONS  
(MCA)**

**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*

# Master of Computer Applications (MCA)

Our School of Computer Application proudly offers an innovative Master of Computer Applications (MCA) program designed to provide students with a well-rounded education that integrates cutting-edge theoretical concepts with practical, hands-on experience. The curriculum is meticulously crafted to bridge the gap between academic knowledge and real-world applications, fostering critical problem-solving skills and technical expertise. This unique approach prepares students to excel in the dynamic and fast-evolving field of electronics and communication, equipping them with the tools necessary to tackle industry challenges and innovate effectively in their careers.

## Eligibility Criteria :

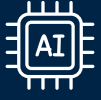
Passed any graduation degree (e.g.: B.E. / B.Tech./ B.Sc / B.Com. / B.A./ B. Voc./ BCA etc.,) preferably with Mathematics at 10+2 level or at Graduation level Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.

**Duration : 2 years**





## Electives Offered



**Artificial Intelligence,  
Machine Learning &  
Data Science**



**Cloud Computing,  
DevOps &  
Cyber Security**



**Web & Mobile Application  
Development with  
Emerging Technologies**





## Market Growth Potential & opportunities

According to the U.S. Bureau of Labor Statistics (BLS), employment in computer and information technology occupations was projected to grow by 11.5% from 2019 to 2029, significantly faster than the average growth rate for all occupations. This growth was expected to create approximately 531,200 new jobs over the decade.

The increase highlights the rising demand for professionals skilled in cloud computing, data analysis, cybersecurity, and other emerging technologies.

## MCA Course Highlights

- ◆ To impart technical knowledge through innovative teaching methods, cutting-edge research, and consultancy services.
- ◆ To provide state-of-the-art facilities and access to internationally recognized faculty.
- ◆ To adapt to the dynamic needs of industries through regular curriculum updates.
- ◆ To promote strong partnerships with industry and the community for enhanced learning and career opportunities.
- ◆ To produce competent graduates equipped with professional ethics, technical expertise, and essential life skills.



## MCA Projects

Students undertake mini-projects in various courses across the semesters to reinforce their understanding of fundamental concepts through practical application. Minor projects are embedded in the curriculum to ensure the holistic development of students, preparing them for a promising future.

In their final semester, students engage in a major project designed to enhance their technical expertise and problem-solving capabilities. These projects often focus on societal challenges, cutting-edge technologies, and research-driven areas. Additionally, students are encouraged to collaborate with industries or reputed organizations to gain real-world experience and

## MCA Internship

With the inclusion of summer internships, students gain practical exposure to professional work environments, applying theoretical knowledge to real-world scenarios. They can undertake internships in reputed industries, academic institutions, R&D organizations, and government agencies.

**The program also offers a 1-year internship mode**, providing students with in-depth, hands-on experience through live projects, enhancing their technical skills and employability.



# Unique Advantages of School of Computer Applications

- ◆ Dynamic curriculum aligned with current industry demands and trends, integrating real-world exposure through guest lectures, seminars, and workshops by industry experts and academicians.
- ◆ Dedicated industry immersion programs offering students hands-on experience in leading organizations, bridging the gap between academic learning and industry needs.
- ◆ Skill development programs and global/industry-recognized certifications 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, creativity, and innovation.
- ◆ Emphasis on research culture and participation in hackathons to promote problem-solving and teamwork.
- ◆ Support for young entrepreneurs with innovative ideas through DERBI (Dayananda Sagar Entrepreneurship Research & Business Incubator) and dedicated mentorship programs.
- ◆ Active training and placement cell dedicated to securing top-tier job placements.
- ◆ One-to-one student mentoring providing personalized academic and career guidance.
- ◆ Diverse and experienced faculty, fostering creativity and independent thinking.
- ◆ 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.



## Programme Outcomes

- ◆ To acquire foundational and advanced knowledge in computer applications, enabling students to design and develop innovative solutions for complex computing problems.
- ◆ To foster proficiency in programming, software development, and emerging technologies, preparing students for successful careers in IT and allied industries.
- ◆ To cultivate strong analytical, research, and problem-solving skills for addressing real-world challenges in diverse domains of computer applications.
- ◆ To instil ethical values, teamwork, and effective communication skills to contribute responsibly to professional and societal development.





# Exciting and Diverse Career Avenues

**Software Developer**

**Software Tester**

**Hardware Engineer**

**Database Engineer**

**Cloud Architect**

**Data Scientist**

**Business Analyst**

**Web Designer/  
Developer**

**IT Architect**

**Software Consultant**

**Network Engineer**

**Quality Assurance  
Analyst**

**Project Manager**

## Where Can MCA Take You?

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

- ◆ Information Technology (IT) and Software Development
- ◆ Banking, Financial Services, and Insurance (BFSI)
- ◆ Healthcare and Pharmaceuticals
- ◆ Retail and E-commerce
- ◆ Media and Entertainment
- ◆ Telecommunications
- ◆ Education and EdTech
- ◆ Manufacturing and Industry 4.0
- ◆ Government and Public Sector
- ◆ Research and Development (R&D)

# 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

For MCA students, DSU goes a step further by offering specialized training and career support tailored to the high-demand skills in the IT and software industries. With strong industry collaborations and dedicated placement assistance, MCA students are well-equipped to secure roles in leading tech companies, startups, and multinational corporations. The program focuses on upskilling students in emerging technologies like AI, Data Science, and Cloud Computing, ensuring that they are industry-ready and highly sought after by employers.

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

Capgemini

tcs TATA  
CONSULTANCY  
SERVICES

EY

Tech  
Mahindra

happiest  
minds

wipro



Mindtree

accenture

indegene

amazon

eurofins





# 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





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