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B.COM BBA BCA B.Sc BA

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CHRIST ACADEMY INSTITUTE FOR ADVANCED STUDIES

hrist Academy Institute for Advanced Studies (CAIAS), established in 2016 in Bangalore, India, is a leading institution of higher learning under the guidance of the Carmelites of Mary Immaculate (CMI), a congregation renowned for its dedication to education. CAIAS offers diverse undergraduate and postgraduate programs in Arts & Humanities, Business Management, Commerce, Computer Applications, and Science.

With a focus on holistic education, CAIAS combines theoretical knowledge with practical experience, equipping students for successful careers. The curriculum integrates modern trends with industry-relevant practices, providing hands-on learning through internships, research, and projects. The dedicated faculty, comprising experienced professionals and scholars, ensure students receive high-quality, future-ready education.

CAIAS boasts state-of-the-art facilities, including modern classrooms, advanced computer labs, a well-stocked library, and sports amenities. Set amidst a serene campus, the environment fosters both academic and personal growth. Beyond academics, the institution emphasizes character formation, values-based education, and community service, preparing students to contribute positively to society. Rooted in excellence and innovation, CAIAS is the ideal choice for students seeking a transformative educational journey, blending academic rigor, ethical values, and a supportive community.

# **VISION**

### Light to Enlighten

To create and disseminate the light of knowledge to one and all for the greater good and a sustainable future.

# **NOISSIN**

To provide a conducive and enabling environment that fosters discipline, promotes motivation and drives the pursuit of excellence in learning.

To transform individuals into independent and enlightened citizens, who care for the community and the Country.

# "Shape your future with values that matter - Choose CAIAS for a holistic education experience!"

# WHY CAIAS?

At Christ Academy Institute for Advanced Studies (CAIAS), students receive a holistic education that blends academic rigor with ethical and socially conscious learning. Our state-of-the-art facilities, experienced faculty, and serene green campus create the perfect environment for growth.

CAIAS ensures students are not only prepared for successful careers but are also equipped to make ethical decisions and create positive social impact. Through workshops, real-world case studies, and hands-on experiences, students learn to lead with integrity and responsibility. Parents and students trust CAIAS to provide not just an education, but a foundation for life.

Christ Academy Institute for Advanced Studies (CAIAS) is nestled in a sprawling, green, and serene campus that offers the perfect environment for holistic learning and personal growth. Surrounded by lush greenery, the campus provides a tranquil space for students to focus on academics, engage in extracurricular activities, and nurture their well-being.

The eco-friendly campus features modern infrastructure, including state-of-the-art classrooms, advanced laboratories, a well-stocked library, and vibrant recreational spaces. This harmonious blend of nature and technology fosters creativity, reduces stress, and enhances concentration. At CAIAS, the campus is not just a place to study; it's a space to thrive.





# SCHOLARSHIP

- ST.CHAVARA EXCELLENCE AWARD
- PADMA BHUSHAN FR.GABRIEL CHIRAMEL CMI MERIT
- VIDYADHANAM SCHOLARSHIP FOR FINANCIAL ASSISTANCE
- ALUMNI ENDURANCE SCHOLARSHIP
- DIVYAANG SCHOLARSHIP
- BISHOP CLEMENT THOTTUNGAL SPORTS & CULTURAL SCHOLARSHIP



SCAN FOR MORE
SCHOLARSHIP DETAILS



# DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science and Applications at Christ Academy Institute for Advanced Studies (CAIAS) is dedicated to empowering students with cutting-edge knowledge and skills to thrive in the ever-evolving technology landscape. Offering undergraduate and postgraduate programs like BCA and MCA, the department integrates theoretical foundations with practical learning, ensuring students are industry-ready.

The Department emphasizes innovation and application through specialized BCA programs in Artificial Intelligence & Machine Learning and Data Science along with BCA Regular program. Students gain hands-on experience through internships, projects, and workshops using advanced tools and technologies.

With a focus on holistic development, the Department supports student growth through clubs like Int-elegance, industry collaborations, and academic alliances with institutions such as IIT Bombay and ICT Academy. Facilities such as state-of-the-art labs and partnerships with global organizations further enhance the learning experience.

The department fosters critical thinking, problem-solving, and leadership skills, preparing graduates for impactful careers in roles such as software developers, data scientists, AI specialists, and entrepreneurs. Committed to academic excellence and innovation, the Department of Computer Science and Applications is a gateway to opportunities in the dynamic world of technology.

# **DEPARTMENT VISION**

To cultivate a dynamic and innovative learning environment that empowers students with comprehensive knowledge in computer applications, fosters critical thinking, problem solving and equips them with practical skills to excel in the ever-evolving field of technology.

# **DEPARTMENT MISSION**

- Quality Education: To deliver a robust curriculum designed by the Bangalore University that combines theoretical knowledge with practical application, ensuring students gain a thorough understanding of computer applications.
- Skill Development: To enhance students' technical skills, problem-solving abilities, and critical thinking through hands-on projects, internships, and industry collaborations.
- Innovation and Research: To foster a culture of innovation and research, encouraging students to explore new technologies and contribute to advancements in the field.
- Ethical Values: To instill strong ethical values and a sense of responsibility, preparing students to make positive contributions to society and the professional world.
- Global Competence: To equip students with the skills and knowledge needed to compete and succeed in the global IT industry, promoting lifelong learning and continuous professional development.

### DEPARTMENT HIGHLIGHTS

- · Qualified and experienced faculty members
- · Academic alliances with leading organizations
- Ongoing industry-academia collaboration like Infosys Springboard, IBM Skill Build Program
- · Opportunities for research, sports, and cultural involvement
- IT Club (Int-elegance) for technical and career development activities
- Internships and project work (mini and major)
- Use of Google Classroom for assignments and resources
- · Industrial visits and hands-on training sessions
- · Conferences, webinars, and workshops
- Real-time project development training

### DEPARTMENT ALLIANCES

The department also collaborates with:

- IIT Bombay Spoken Tutorial Programme
- · IIT Madras NPTEL Local Chapter
- ICT Academy
- · Networkers Home
- · Vtech Integrated Solutions

# **DEPARTMENT CLUB**

Step into a world of innovation and creativity with the IT Club - Int-elegance at the Department of Computer Science, CAIAS! This vibrant hub is where ideas meet action, offering a platform for students to explore, innovate, and shine in the tech world.

From coding challenges and hackathons to web design workshops and IT quizzes, our club activities are designed to enhance your technical expertise and problem-solving skills. Engage in real-world projects, collaborate with peers, and showcase your talents through paper presentations and interactive sessions with industry experts.

At Int-elegance, it's not just about learning—it's about leading. Join us to transform your passion for technology into groundbreaking innovations and lifelong connections. Make your mark in the ever-evolving tech landscape!

# IS THIS RIGHT FOR ME?

If you find yourself resonating with any of the following, this program is for you:

- You want to build a strong foundation in computer applications and master key skills in programming, networking, and database management.
- You aspire to harness the power of technology and develop innovative solutions in a rapidly changing digital landscape.
- You have a passion for data-driven decision-making and want to specialize in fields like AI or machine learning.
- You dream of creating dynamic web applications as a full stack developer, or extracting valuable insights as a
  data scientist.
- You envision becoming a tech entrepreneur or innovator, eager to make your mark in the technology sector.

Join us at CAIAS and embark on a journey that prepares you for a successful career in the dynamic world of technology!



# BCA - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

The BCA in Artificial Intelligence & Machine Learning at Christ Academy Institute for Advanced Studies (CAIAS) is a specialized undergraduate program designed to equip students with a strong foundation in AI and ML technologies. The course covers key concepts such as algorithms, data analysis, neural networks, and natural language processing, preparing students to develop intelligent systems and applications.

Through hands-on projects, internships, and workshops, students gain practical experience in building Al-driven solutions. The program emphasizes problem-solving skills, data-driven decision-making, and the application of Al/ML techniques across various industries. Students also have access to state-of-the-art tools and technologies, ensuring they are well-prepared for careers in Al engineering, data science, and machine learning research.

Ideal for those passionate about technology and innovation, this program offers a gateway to opportunities in one of the fastest-growing fields in the tech industry.

# PROGRAM HIGHLIGHTS

- Comprehensive curriculum blending theoretical knowledge with practical applications.
- Hands-on projects, workshops, and internships to solidify learning.
- Collaboration with industry experts through guest lectures and seminars.
- · Access to state-of-the-art AI and ML tools and technologies.
- Microsoft Azure Al Fundamentals: Al-900 Certification

# LEARNING OUTCOME

- Develop a robust understanding of AI and ML algorithms and their applications.
- Acquire skills to design and implement intelligent systems.
- Enhance problem-solving abilities through data-driven decision-making.
- Gain expertise in programming languages and tools relevant to AI and ML.
- Build critical thinking skills to analyze complex data sets and derive actionable insights.

# ELIGIBILITY

Completion of 12th grade (10+2) in any discipline from a recognized board, with a minimum aggregate of 50% & Damp; Mathematics in 12 Grade is preferred.

# REQUIREMENT

To ensure a seamless learning experience, we recommend that students possess a laptop with the following minimum configuration:- Processor: Intel Core i5 (12th Gen) or equivalent, RAM: 8 GB or higher, Operating System: Windows 10/11 or latest macOS & Storage: 256 GB SSD or higher.

# **SYLLABUS**

SEMESTER 1	SEMESTER 2	
<ul> <li>Discrete Structures</li> <li>Problem-Solving Techniques</li> <li>Computer Architecture</li> <li>Problem-Solving Techniques Lab</li> <li>Computer Architecture Lab</li> <li>Office Automation Tools Lab</li> <li>Language L1</li> <li>Language L2</li> <li>Environmental Studies</li> </ul>	<ul> <li>Data Structures</li> <li>Object-Oriented Programming using Java</li> <li>Operating Systems</li> <li>Data Structures Lab</li> <li>Object-Oriented Programming Lab</li> <li>Linux and Shell Programming Lab</li> <li>Language L1</li> <li>Language L2</li> <li>The Constitution of India</li> </ul>	

AI & ML PAPERS		
SEMESTER 1	SEMESTER 3	SEMESTER 5
Introduction to AI, ML, and Python Basics	Natural Language Processing     Computer Vision	Microsoft Global Certification (Optional)
SEMESTER 2	SEMESTER 4	SEMESTER 6
ML Algorithms and Techniques	Data Analytics     Generative AI	Microsoft Global Certification (Optional)

# WHAT ARE MY CAREER OPPORTUNITIES?

- AI/ML Engineer
- Data Scientist
- Machine Learning Researcher
- Al Solutions Architect
- Data Analyst
- Software Developer
- Robotics Engineer
- Business Intelligence Analyst
- Research Scientist
- Entrepreneur in AI/ML start-ups



### **NURTURING HOLISTIC DEVELOPMENT**

At CAIAS, we offer eight dedicated centres that promote holistic development, fostering research, community engagement, and professional growth. These centres provide students with valuable platforms for learning and support students' academic pursuits, career preparation, and personal growth to excel in their chosen fields.

























# SHAPE YOUR FUTURE WITH CAIAS where leaders are made!





Excellence in Infrastructure Excellence in Academics Top Emerging College

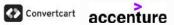
- Prominent & Futuristic Business Studies & Degree College of the Year 2024
- Excellence In Educational Standards Adaptability & Implementation





# **RECRUITERS**







































































# **FACILITIES**









### CHRIST ACADEMY INSTITUTE FOR ADVANCED STUDIES

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