

# Bachelor of Computer Applications (BCA)

## Course Overview:

*The Bachelor of Computer Applications (BCA) is a three-year undergraduate program affiliated with Dr. Bhimrao Ambedkar University, Agra. It offers a strong foundation in computer science, programming, and IT, blending theory with hands-on learning.*

*Designed to meet academic and industry standards, the curriculum prepares students for careers in software development, database management, networking, AI, and cloud computing. Students gain technical skills, problem-solving abilities, and proficiency in key programming languages and technologies. We nurture future tech leaders and innovators who are ready to shape tomorrow's digital landscape.*

## Eligibility Criteria:

Passed 10+2 (HSSC) or equivalent from a recognized board in Mathematics/Computer Science stream with 50%.

## Course Structure:

- **Programming Languages (C, HTML, CSS, JavaScript, PL/SQL, Java, Python, PHP, VB.Net)**
- **Data Structures, Database Management Systems**
- **Web Technologies, Internet Technology, Networking and Security, Cloud Computing**
- **Mathematics, Digital Electronics, Computer Organization and Architecture**
- **Operating Systems, Artificial Intelligence, Design and Analysis of Algorithms**
- **Business Communication, Principles of Management**
- **Application oriented projects**



## Distinctive Features:

- Technically sound experienced faculty
- Well-equipped computer laboratory with advanced technology and software
- Collaboration with Spoken Tutorial, a project of IIT Bombay, affiliated with ICT, MHRD, Gov of India to provide certified bridge courses for programming languages (R, MySQL, Matlab etc.), operating systems architecture (Linux, Arduino, Unix, etc.) and training of software (Git, LaTeX, etc.)
- Facility of smart classes.
- Internships and field trips for real-world exposure
- Sports and cultural activities
- Value-added workshops, expert lectures and seminars facilitated by esteemed organizations.
- Project-based and problem-based learning

## Career Opportunities:

*Graduates of the BCA program are equipped with a versatile skill set, opening doors to a wide range of roles in the tech industry and beyond, including:*

- Mobile App Developer
- Software Developer
- Web developer
- Database Administrator
- Network Engineer
- IT Support Specialist

