



Secure Your Future With Our Top-Rated

# Online BCA

Bachelor of Computer Applications



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# About NIU

Noida International University (NIU) achieved recognition for its academic prowess by receiving the highest score of 3.44 out of 4 with Grade A+ in the first cycle of NAAC accreditation, outperforming all other private state universities in India. This honor was bestowed by the prestigious autonomous institution under the UGC, Ministry of Education, Government of India. A wide spectrum of programs paired with flexibility, experiential learning and interdisciplinary orientation emancipate our students to explore their interests and pursue dream careers. CDOE focuses on practical skills and real-world applications.

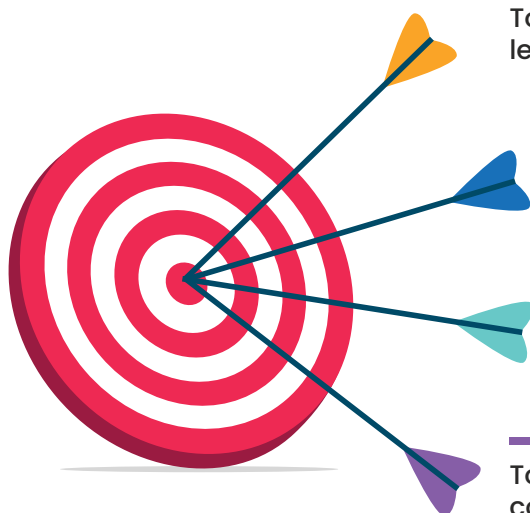


## Our Vision

"To be a global Centre of learning, Innovation, Professionalism and Academic Excellence Tempered with values and Ethics"



## Our Mission



To create a vibrant environment conducive to passionate learning and original thinking

Interaction with academia and industry to promote quality research and pathbreaking innovations.

To nurture world class human resources in all domain for positive and meaningful services to the nation and society.

To inculcate the highest level of integrity, strong character and commitment in nation building to serve mankind through providing quality education and healthcare services to the society

# Program Highlights



## Clear Learning Objectives

Clearly defined goals and outcomes help students understand what they will achieve by the end of the course.

## Engaging Content

Engaging content like videos, quizzes & discussion forums keep students engaged and helps cater to different learning styles.



## User-Friendly Interface

An intuitive and easy-to-navigate platform ensures that students can focus on learning rather than struggling with technology.

## Regular Assessments

Frequent quizzes, assignments, and feedback help students track their progress and reinforce learning.



## Responsive Support

Accessible instructors and support staff can address students' questions and technical issues promptly.

## Flexible Learning

Self-paced modules and flexible deadlines accommodate different schedules and learning paces.



# BCA Overview

Dive into the dynamic world of technology with the Online BCA program – designed for aspiring developers, tech enthusiasts, and problem-solvers. Master essential skills in programming, data structures, web design, networking, and software development using modern tools and languages. With a curriculum aligned to industry needs, you'll build the expertise to innovate, adapt, and thrive in the ever-evolving tech landscape. Whether you aim to be a software developer, data analyst, cybersecurity expert, or IT specialist, this program sets the stage for your success.

## **Duration:**

**3 Years**

Total of 6 semesters

## **Online Program:**

**LIVE + Recorded**

Video Lectures by Expert Faculty

## **Eligibility:**

12th or equivalent examination in any stream from a recognized Board /Council

# Program Structure

## Semester 1

	Credit
<b>Discipline Specific Core</b>	
● Discrete Mathematics (DSC-1)	4
● Fundamental of Computers and IT (DSC-2)	4
● Programming using C Language (DSC-3)	4
<b>Ability Enhancement Course (AEC)</b>	
● Environment Study	2
<b>Skill Enhancement Course (Choose anyone)</b>	
● Document Preparation using Word	2
● MOOC course from SWAYAM /NPTEL/ Open Elective offered by another School /Department / Programme	2
<b>Value Added Course (VAC)</b>	
● Choose any one from List-B	2
<b>Generic Elective</b>	
● MOOC course from SWAYAM /NPTEL/ Open Elective offered by another School /Department / Programme	4
<b>Practical</b>	
● Fundamental of Computers & IT Lab	2
● Programming using C Language Lab	2
<b>Bridge Course (Mandatory for students from non-Mathematics background)</b>	
● #Bridge course in Mathematics	0

## Semester 2

	Credit
<b>Discipline Specific Core</b>	
● Object Oriented Programming with C++ (DSC-4)	4
● Management Information System (DSC-5)	4
● Web Programming (DSC-6)	4
<b>Ability Enhancement Course (AEC)</b>	
● Technical Communication	2
<b>Skill Enhancement Course (Choose anyone)</b>	
● Statistical Analysis using Excel	2
● MOOC course from SWAYAM /NPTEL/ Open Elective offered by another School /Department / Programme	2
<b>Value Added Course (VAC)</b>	
● Choose any one from List-B	2
<b>Generic Elective</b>	
● MOOC course from SWAYAM /NPTEL/ Open Elective offered by another School /Department / Programme	4
<b>Practical</b>	
● Object Oriented Programming with C++ Lab	2
● Web Programming Lab	2



## Semester 3

	Credit
<b>Discipline Specific Core</b>	
● Data Communication and Network (DSC-7)	4
● Algorithms and Data Structures (DSC-8)	4
● Database Management Systems (DSC-9)	4
<b>Ability Enhancement Course (AEC)</b>	
● Personality Development Skills	2
<b>Skill Enhancement Course (Choose anyone)</b>	
● Python Programming Lab	2
● MOOC course from SWAYAM/NPTEL/offered by another Department / School / Programme of minimum 2 credits. Certificate is mandatory for the degree	2
<b>Discipline Specific Elective (Choose anyone)</b>	
● Basics of Python Programming (DSE-1)	4
● Python Programming for Beginners (DSE-1)	4
● Cyber Security (DSE-1)	4
● Fundamentals of Python Programming (DSE-1)	4
● **MOOC course from SWAYAM /NPTEL/Open Elective offered by another School /Department / Programme	4
<b>Value Added Course (VAC)</b>	
● Choose any one from List -B	2
<b>Practical</b>	
● Algorithms and Data Structures Lab	2
● Database Management Systems Lab	2

## Semester 4

	Credit
<b>Discipline Specific Core</b>	
● Object Oriented Programming using Java (DSC-10)	4
● Computer Organization and Architecture (DSC-11)	4
● Theory of Automata & Formal Languages (DSC-12)	4
<b>Ability Enhancement Course (AEC)</b>	
● Privacy & Security in Online Social Media	2
<b>Skill Enhancement Course (Choose anyone)</b>	
● Internet Of Things	2
● MOOC course from SWAYAM/NPTEL/offered by another Department/ School /Programme of minimum 2 credits. Certificate is mandatory for the degree	2
<b>Discipline Specific Elective (Choose anyone)</b>	
● Introduction to Data Science (DSE-2)	4
● Introduction to Artificial Intelligence (DSE-2)	4
● Network Security (DSE-2)	4
● Web Development with Python (DSE- 2)	4
● **MOOC course from SWAYAM /NPTEL/Open Elective offered by another School / Department / Programme	4
<b>Value Added Course (VAC)</b>	
● Choose any one from List -B	2
<b>Practical</b>	
● Object Oriented Programming using Java Lab	2
● Computer Organization and Architecture Lab	2

## Semester 5

	Credit
<b>Discipline Specific Core</b>	
● Operating System and Linux Programming (DSC-13)	4
● Software Engineering (DSC-14)	4
● Design & Analysis of Algorithms (DSC-15)	4
<b>Ability Enhancement Course (AEC)</b>	
● Privacy & Security in Online Social Media	2
<b>Skill Enhancement Course (Choose anyone)</b>	
● Minor Project	2
<b>Discipline Specific Elective (Choose anyone)</b>	
● Data Visualization & Analytics (DSE-3)	4
● Machine Learning with Python (DSE-3)	4
● Web Security (DSE-3)	4
● Web Development with Java & JSP (DSE-3)	4
<b>Generic Elective</b>	
● **MOOC course from SWAYAM /NPTEL/Open Elective offered by another School / Department / Programme	4
<b>Practical</b>	
● Operating System and Linux Programming Lab	2
● Software Engineering Lab	2

## Semester 6

	Credit
<b>Discipline Specific Core</b>	
● Cloud Computing (DSC-16)	4
● Computer Graphics (DSC-17)	4
● Data Warehousing & Data Mining (DSC-18)	4
<b>Skill Enhancement Course (Choose anyone)</b>	
● Major Project	2
<b>Discipline Specific Elective (Choose anyone)</b>	
● Machine Learning Using Python (DSE-4)	4
● Deep Learning with Python (DSE-4)	4
● IT Act and Cyber Laws (DSE-4)	4
● Mobile Application Development (DSE-4)	4
<b>Generic Elective</b>	
● **MOOC course from SWAYAM /NPTEL/Open Elective offered by another School /Department / Programme	4
<b>Practical</b>	
● Cloud Computing Lab	2
● Computer Graphics Lab	2

# Key Recruiters



# Admission Process



1

## Online Counselling

Our counselors will provide guidance to potential students on their selected program.

## Online Registration to Admission Portal

Access to the admission portal is granted through online registration with a registration fee.

2



3

## Documents Verification

The university admission team reviews the uploaded documents and confirms eligibility within a span of 4 Days. Approval of documents is subject to eligibility criteria as per the university guidelines.

## Fee Payment & LMS Access

Students receive a fee payment link in their respective accounts to complete payment. Upon successful fee payment, eligible students are granted access to LMS (Learning Management System) within 48 hours.

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Noida International University, Plot No. 1, Sector-17 A,  
Yamuna Expressway, Gautam Budh Nagar,  
Uttar Pradesh 201312



[www.niu.edu.in](http://www.niu.edu.in)



[admissions@niuonline.edu.in](mailto:admissions@niuonline.edu.in)



+91 92660 25500

