

# BCA WITH SPECIALISATION IN CLOUD & SECURITY

INDUSTRY-ENDORSED PROGRAM

Remote Internships &  
Placement Assistance

Global Accreditations

Global Faculty

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# MESSAGE FROM KEY LEADERS



This is the age of knowledge. And anyone who says “I do not know” at this age, will risk being labelled “outdated”.

We at Amity Online Family have pledged to ensure no one faces that dilemma. That's why you will find Amity University Online going to the depths, the widths, the lengths to ensure we serve as many humans as possible.

Choices decide the fruits of your life. Taking up online programs with AUO is a wise decision to widen your opportunities to succeed.

**Dr. Priya Mary Mathew**  
Director, Academics



In the age of Industry 4.0, employability is a factor of attitude along with the knowledge and skills of learners.

Courses that are created with Industry participation to enhance in-demand skills in students is going to be a gamechanger for the entire Higher education landscape in India. It will also give wings to students to achieve their dream careers.

**Krishnan CA**  
Business Unit Head, Higher Education, TCS iON



Amity University Online provides 'Anytime, Anywhere' education experience, intensive corporate interaction, industry-oriented teaching delivered by eminent corporate experts and world-class faculty.

Designed to suit both graduate students and working professionals, our programs adhere to UGC's stringent criteria and we are at par with the campus programs.

**Prof. Abhinash Kumar**  
Director

# ABOUT AMITY UNIVERSITY ONLINE

Amity University Online is devoted to creating a transformative learning environment, a digital classroom with true mobility and access to education from anywhere; inheriting Amity's vision of building the nation through education. Amity University Online is India's first university entitled by UGC to offer Master's, Bachelor's, Post Graduate Certificates and Certificate programs. These career-oriented programs are specially designed for working professionals offering futuristic learning experiences on our awarded LMS, along with face-to-face interactions, live sessions, webinars, video lectures & one-to-one session with faculty, designed and delivered by over 6000 eminent corporate experts and faculty.



## USA, UK & CANADA ACCREDITATIONS





# ABOUT TCS iON

TCS iON, a strategic business unit of Tata Consultancy Services, is focused on enabling productive outcomes for educational institutions, government departments, organizations from multiple industry sectors and individual learners with the use of 'Phygital' platforms. These are the platforms that overlay digital technologies over physical assets. TCS iON delivers this with a unique IT-as-a-Service model that provides easy-to-use, secured, integrated, and hosted solutions in a build-as-you-grow and pay-as-you-use business model. TCS iON serves its clients with the help of best practices gained through TCS' global experience, domestic market reach, skills and delivery capabilities.

## Enter your dream company with TCS NQT

NQT is endorsed by 650+ top IT and non IT corporates in India including TCS. Successful learners from the above tests would be given access to jobs from pan-India corporates through TCS iON Job Portal. All eligible learners would be appearing in TCS iON National Qualifier Test (NQT) – Cognitive & Subject tests.

Learners are requested to note that NQT will be applicable for the students of BCA in semester 5.

### Some of the companies part of 650+ corporates



# ABOUT THE PROGRAM

## BCA (Cloud & Security)

This specialisation track would help students to gain an industry ready end-to-end in-depth knowledge of the concepts of cloud computing, including architecture, development and security thereby utilizing the information using data mining and analytics. This track provides special focus on information security, cryptography and cybersecurity.



## TESTIMONIAL

“ Amity and TCS iON have helped me to strengthen my computer & information technology fundamentals as well as its applications in different domains. This program has enabled me to differentiate well between the various types of data and the requirements, to resolve a particular problem statement.”

**Anil Sharma**

# COURSE CURRICULUM

## Semester I

Basic Mathematics- I  
Business Communication  
Computer and Information Technology  
Human Computer Interaction  
Programming in C

Core Courses  
VAC-Communication Skill  
Core Courses  
Core Courses  
Core Courses

## Semester II

Data Structures Using C  
Environmental Studies  
Individual Excellence and Social Dynamic  
Operating System Concepts  
Software Engineering and Modeling (UG) Syllabus

Core Courses  
Core Courses  
VAC-Behavioral Skill  
Core Courses  
Core Courses

## Semester III

Introduction to Data Base Management Systems  
Computational Statistics  
Green computing  
Network Basics  
Object Oriented Programming Using Java

Core Courses  
Core Courses  
Employability and skill enhancement  
Core Courses  
Core Courses

## Semester IV

Unix Operating System and Shell Programming  
Python Programming  
Practical Approach to Data Mining and Analytics  
Applied Cloud Computing  
Information Security - Practitioner's Perspective

Core Courses  
Core Courses  
Specialisation Elective Courses  
Specialisation Elective Courses  
Specialisation Elective Courses

## Semester V

Introduction to Artificial Intelligence  
Fundamentals of Ecommerce  
Professional Ethics  
Practical Approach to Cyber Security  
Cloud Development

Core Courses  
Employability and skill enhancement  
Value added course  
Specialisation Elective Courses  
Specialisation Elective Courses

## Semester VI

Major Project [Non-Teaching Credit Courses]  
Advanced Cyber Security  
Cloud Architecture  
Cryptography

Non-Teaching Credit Courses  
Specialisation Elective Courses  
Specialisation Elective Courses  
Specialisation Elective Courses

# PLACEMENTS & INTERNSHIP OPPORTUNITIES

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Amity University, in collaboration with leading brand TCS iON, strives to make learners capable and excel in the real world. At Amity, we focus on providing the students with the best possible opportunities based on their performance and interest. These career opportunities are inclined to make students eligible for the most prominent corporates with appropriate salaries and designations.

## Career Services for the students

- Personality Development Program
- Communication Skills Program
- Mock Interview Workshop
- Resume Building Workshop
- Industry Internship Programs

## 100% Placement Assistance:

- Placement opportunities will be open to all eligible learners from the IHP subject/courses. They would be appearing in TCS iON National Qualifier Test (NQT) – Cognitive & Subject tests.
- In addition, Amity University Online will also provide placement support to all its online learners through regular on campus & virtual placement drives



## Assured Internship Opportunities

### For BCA

The remote internship is provided to all the enrolled students twice during the program as per the following schedule:

- I. After semester 4  
Duration: 30 days | 125 hours  
Additional Benefits: 50 hours in Industry Project
- II. After semester 6  
Duration: 45 days | 210 hours  
Additional Benefits: 90 hours in industry project

**Note:** The process and criteria of selection will vary across corporates as per their HR policies and depending on the internship opportunity.

## Key Differentiators



Job visibility from pan-India corporates through TCS iON Job listing platform



Hands-on experience through Industry Assignments created by Industry experts



Industry endorsed National Qualifier Test (NQT) from TCS iON, embedded in the program



Get hired by one of the top 650+ IT and non-IT corporates



75K+ job opportunities across 23+ industries, 120+ job roles on TCS iON Job listing platform



Average salary\*  
Rs. 8 LPA (e.g. Cloud Security Engineer)

\*Data stats taken from internal & external sources. Nobody or institute shall be held responsible for any data related incongruence or disagreement.

# ACADEMIC FACULTY

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**Prof. Alka Choudhary**

Ph.D Computer Science and Engineering



**Prof. Deepak Kumar**

Ph.D Software Reliability, University of Delhi



**Prof. Sapna Sinha**

Ph.D Computer Science



**Asst. Prof. Anil Kumar Sajnani**

M.Tech Computer Science, Birla Institute of Technology

# INDUSTRY SUBJECT MATTER EXPERTS

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**Sugato Samanta**  
Domain Consultant,  
Tata Consultancy Services



**Prince Komal Boonila**  
Founder & Director  
Synergy Systems



**Ajit Menon**  
Chief Security Officer  
Tata Consultancy Services



**Tarun Kumar Kushwaha**  
Chief Technology Officer  
Synergy Systems



**Arindam Gupta**  
Domain Consultant  
Tata Consultancy Services

# LEARNING PEDAGOGY

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## Digital learning resources

The content will be available in formats such as videos, ebooks as applicable.

## 15 Digital Lectures per subject in a semester

- Delivered by academician(s) and industry expert(s) in a webcast or webinar format, spread across the entire duration of the course.
- The schedule will be published by TCS iON in advance.

## Online forums (or communities) for enhancing collaborations with the SMEs

- Academic Connect community
- Industry Connect community
- Discussion Room

These are accessible for students from any device.

# ELIGIBILITY

## For Students with Indian Education

- 10th Class Certificate (completing 10 years of formal schooling)
  - 12th Class Certificate (completing 12 years of formal schooling)
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## For Students with Foreign Education

- O level Certificate (completing 10 years of formal schooling. Diploma will not be acceptable)
- A level Certificate (completing 12 years of formal schooling. Diploma will not be acceptable)
- Certificate of Equivalence from Association of Indian Universities (required by any student with foreign education to apply in any University in INDIA, refer to <https://www.aiu.ac.in/>)



[www.amityonline.com](http://www.amityonline.com)