



# Get an Online certified Degree *in* BCA



**AMRITA** | **AHEAD**  
VISHWA VIDYAPEETHAM | Online

# ***Mission***

To provide value-based education and mould the character of the younger generation through a system of wholesome learning, so that their earnest endeavor to achieve progress and prosperity in life is matched by an ardent desire to extend selfless service to society, one complementing the other.

# ***Vision***

We envision a world endowed with the wealth of knowledge and strength of discrimination(Viveka). We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of mankind. We envision a human being empowered with wholesome knowledge, which makes him an enabler and facilitator in the deep search and striving of every human being for that knowledge. We envision a system where in there is a great inter play and exchange of ideas, thoughts, feelings and actions which develop people empowered with noble character, and wholesome value. They go out in to the fields of action to build a world of love, harmony, peace and knowledge. They follow the path of Dharma and give a clear direction in every thought and human behaviour.



## Our Chancellor



Sri Mata Amritanandamayi Devi

*There are two types of Education*  
***Education  
for Living.  
Education  
for Life.***

*“Studying is a process, like the bud unfolding into the beautiful  
fragrance spreading flower. Understanding this, we  
should approach our topic of study with love and patience. Knowledge is  
like a river. Its nature is to constantly flow. Wherever it can flow, it does so,  
nourishing culture. On the other hand, the same knowledge,  
if devoid of values becomes a source of destruction for the world.  
When values and knowledge become one, there can be no more  
powerful instrument for the welfare of humankind. There are two  
types of education: education for a living and education for life.  
When we study in college, striving to become a doctor, a lawyer, or an  
engineer, that is education for a living. But education for life requires a  
deeper understanding of the world, our minds, our emotions and ourselves.  
Amrita University provides education for life which is  
much more than education just for living.”*

**No.1** **THE** **IMPACT**  
**IN INDIA** **RANKINGS** 2022

**No.1** **QS** **WORLD**  
**IN INDIA** **UNIVERSITY**  
**INTERNATIONAL OUTLOOK** **RANKINGS** 2020

**nirf** **7<sup>TH</sup> BEST** 2023  
**GOVT. OF INDIA** **UNIVERSITY IN INDIA**



**Institution of Eminence**  
Recommended by  
University Grants Commission



**NAAC A++**  
**ACCREDITED**

***University Rankings***







# *Amrita Vishwa Vidyapeetham at a Glance*

Amrita Vishwa Vidyapeetham is a multi-campus, multi-disciplinary research academia that is accredited 'A' by NAAC and is ranked as one of the best research institutions in India. Amrita is spread across six campuses in three states of India - Kerala, Tamil Nadu and Karnataka, with the headquarters at Ettimadai, Coimbatore, Tamil Nadu. Amrita Vishwa Vidyapeetham continuously collaborates with top US universities including Ivy league universities and top European universities for regular student exchange programs, and has emerged as one of the fastest growing institutions of higher learning in India.

*“Amrita Vishwa Vidyapeetham has a major role to play in transforming our society into a knowledge society through its unique value-added education system.”*

**Dr. A.P.J. Abdul Kalam**

Former President of India

*“This is not just another academy, but very high quality, world-class institution, focusing on technology research, dealing with very concrete issues which have immediate applications.”*

**Prof. Muhammad Yunus**

Nobel Laureate

*“This is not just another academy, but very high quality, world-class institution, focusing on technology research, dealing with very concrete issues which have immediate applications.”*

**Dr Lee Hartwell**

Nobel Laureate

# *About Amrita» Ahead*

Amrita AHEAD's Online Degree programs focus on an all-rounded individualized learning trajectory to enhance and diversify one's career growth pathways while integrating Amrita's philosophy of 'Education for Life and Education for Living'. Innovative and award-winning pedagogic practices provide experiential learning allowing freshers and working professionals anytime access and flexibility with personalized mentorship and interactivity. Our UGC recognized future ready degree programs are offered jointly with Industry stalwarts, reputed national and international faculty that equip and expose students to address real-life applications.



# *Online* *Our* **BCA** *Program*

Our online Bachelor of Computer Applications (B. C. A.), Undergraduate program is for aspirants looking to start a career in Computer Science. The program is rigorous, cutting edge and continuously evolving to keep abreast with industry standards. The program also has an analytical core encompassing computer systems, information systems and computer applications.





*How to earn a degree on*  
**Amrita»**  
**Ahead**

## Choose a Degree

Choose a degree ranging from Undergrad to Master's programs.



## Learn Anytime Anywhere

Earn credits towards your degree wherever you are - you just need a smartphone, tablet or computer and access to the internet.

## Ace the Assessments

Complete online assignments to get feedback and demonstrate your understanding.



## Earn your degree

Complete the requirements and gain an internationally recognised qualification.



# *Course» Duration*

Limits	No. of years
Minimum	3
Maximum	6



# Curriculum»

## Semester 1 BCA

Communicative English -1

Foundations of Applied Mathematics- Part I

Principles of Management

Computer Essentials

Problem Solving and Algorithmic Thinking

Problem Solving and Algorithmic Thinking Lab

## Semester 2 BCA

Professional Communication

Foundations of Applied Mathematics- Part II

Database Management System

Object Oriented Programming using Java

Operating System and Computer Architecture

Database Management System Lab

Object Oriented Programming using Java

### Semester 3

## BCA

Discrete Mathematics

Data Structures and Algorithms

Computer Networks

Elective A

Elective B

Data Structures and Algorithms Lab

Computer Networks Lab

### Semester 4

## BCA

Distributed Systems

Web Application Development

Software Engineering

Elective C

Elective D

Web Application Development -Lab

## Semester 5 BCA

C# and .NET Framework

Advanced Java and J2EE

Mobile Application Development

Elective E

Elective F

Advanced Java and J2EE Lab

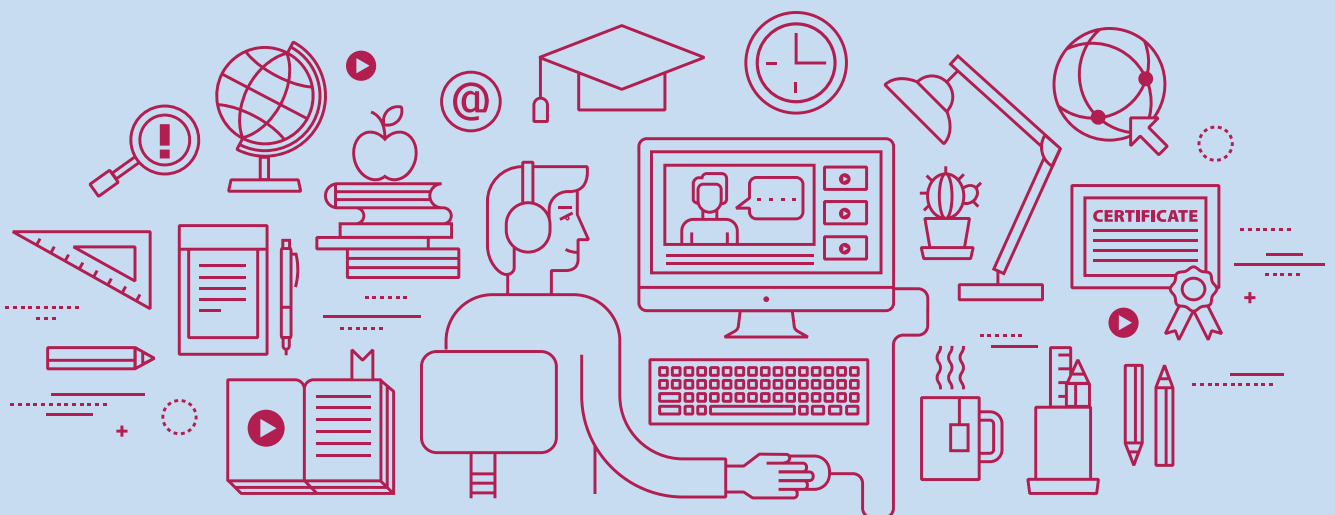
Minor Project

## Semester 6 BCA

Major project

Elective G

Elective H





## **The BCA program has a series of specialisations which are -**

- > Data Science & Analytics
- > Systems & Networks (CISCO Certified Network Associate)
- > Cyber Security & Applications
- > Mobile Application & Full Stack Dev. Skills
- > Virtual & Augmented Reality
- > Cloud Computing with AWS

## **They can be achieved with the electives listed below -**

### **Industry Relevant Electives**

(Training to earn Amazon, Cisco, CompTia & IBM certifications)

### **AWS and Cloud computing**

(Training to earn Amazon certification and badges)

- > Amazon- AWS Academy Cloud Development
- > Amazon - AWS Academy Cloud Architecting
- > Amazon - AWS Academy Data Analytics Lab

### **CISCO and networking**

(Training to earn CCNA Certifications)

- > CCNA: Introduction to Networks
- > CCNA: Switching, Routing & Wireless Essentials
- > CCNA: Enterprise Networking, Security & Automation

### **Security Courses**

(Training to earn compTia Certifications)

- > EC Council Certified Secure Computer User (CSCU)
- > EC Council Certified Application Security Engineer (CASE)
- > EC Council Certified Ethical Hacker

## Microsoft Azure Certification

- > Azure Fundamentals
- > Azure Data Engineer
- > Azure AI Engineer

## Virtual and Augmented Reality

(Google)

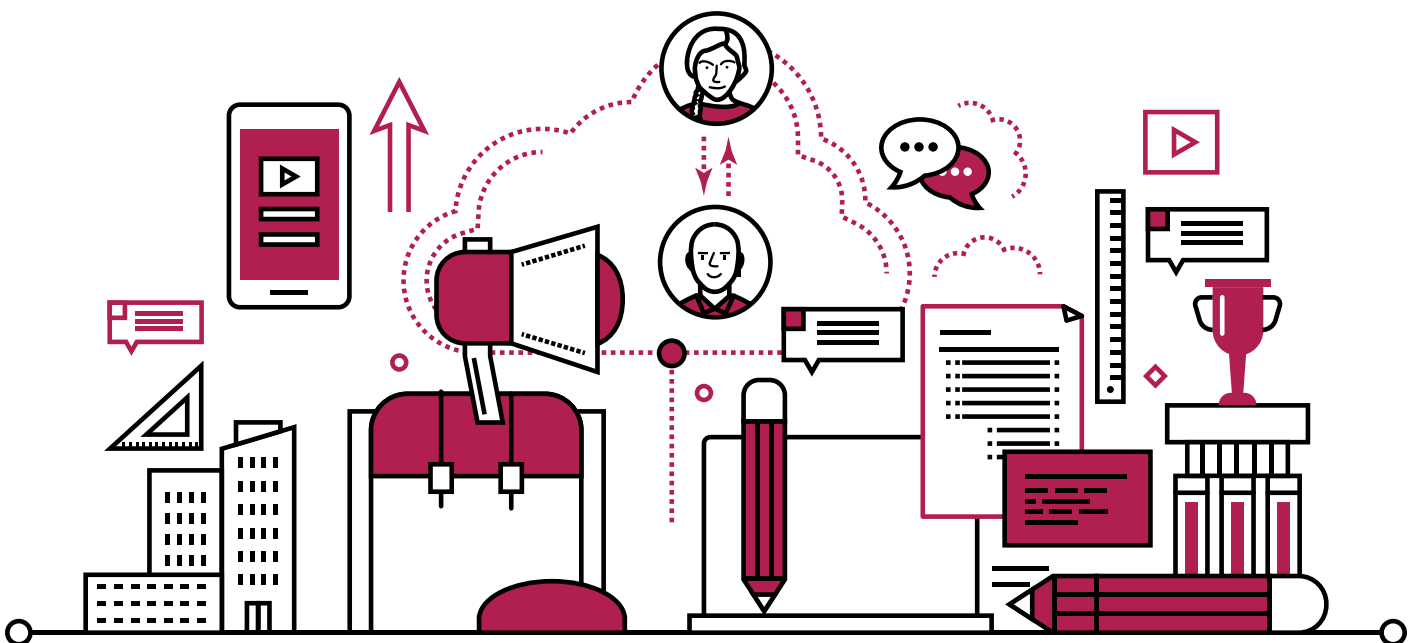
- > Introduction to VR Programming
- > Game programming
- > 3D interaction design and 3D models for virtual reality
- > Cross platform game development
- > Designing human computer interfaces
- > Augmented Reality for Marketing and Business Integrations

## Other Industry-relevant Electives

- > Introduction to Artificial Intelligence
- > Applications of Machine Learning
- > Data Mining
- > Linear Algebra for Machine Learning
- > AI for Drug Discovery & Target Validation
- > Applied Predictive Analytics
- > Big Data Analytics & Visualization
- > Natural Language Processing
- > Statistics & Probability for Machine Learning
- > Business Analytics
- > Bio medical & Health Informatics

# Artificial intelligence and data science

- > Introduction to Artificial Intelligence
- > Applications of Machine Learning
- > Data Mining
- > Linear Algebra and Optimization for Data Science
- > AI for Drug Discovery & Target Validation
- > Applied Predictive Analytics
- > Big Data Analytics & Visualization
- > Natural Language Processing
- > Probability and Statistics for Data Science
- > Business Analytics
- > Bio medical & Health Informatics



**Industry-Ready Training:** Interact with International (Germany, USA) and National Artificial Intelligence specialists on course modules and Industry-led projects with 50+ case studies.

**Mentored industry-relevant projects** in the final semester alongside industry veterans in areas of Machine Learning, NLP, Vision, Deep learning, Cybersecurity, Cloud Computing & Distributed Computing, Blockchain, IoT.

**Online Practical Virtual Labs** from Amazon AWS, CISCO Academy and Amrita.

## Industry Certification Training

(Certification costs are optional and extra)

CISCO Certified Network Associate

Optional elective EC-Council Certified Security Specialist (ECSS)

Optional PenTest+ (Plus) Certification

CompTIA IT Certifications

IBM Practitioner





# Online Class Schedule»

**Live Sessions - 1 hour per week per course**

## **Reading material & video lectures**

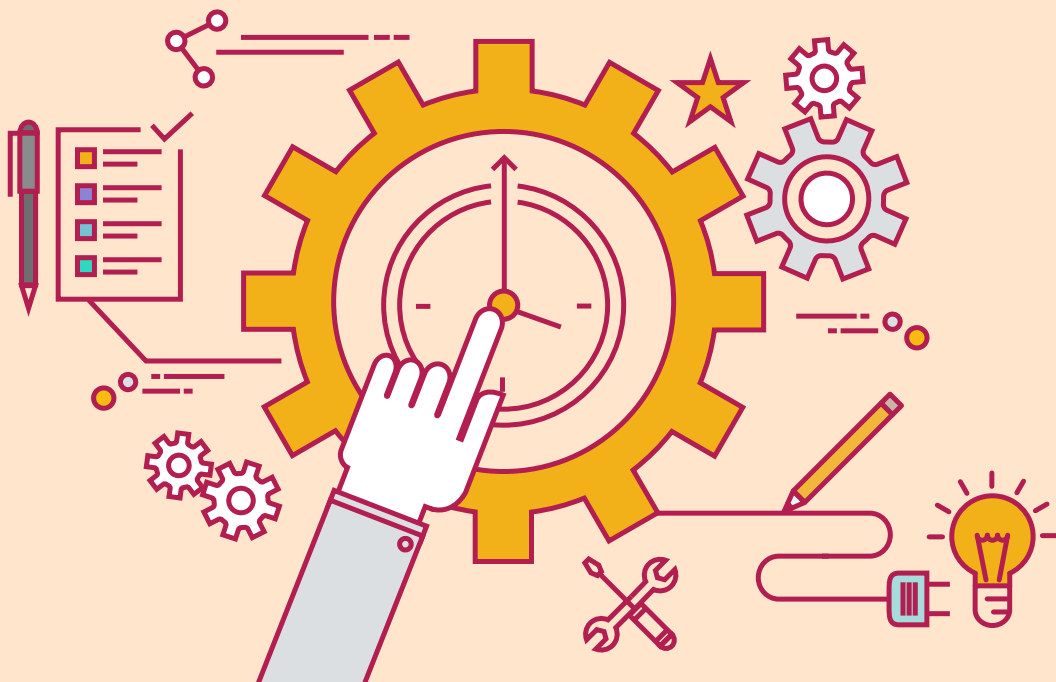
Uploaded every week prior to the live session

## **Discussion forums**

Active for 2 hours on weekly basis for every course

## **Quizzes & assignments**

Once a week, every week



Our structure will enable students to clarify their doubts and solve the questions/assignments in a timely manner. Approximately 15 weeks of e-content is prepared inclusive of exams.

# ***Each course will be in 4 quadrants, fully following the UGC guidelines***

**1) Quadrant I** - E-Tutorial which contains: Video and Audio Content in Animation, Virtual Labs, etc, along with the transcription of the video.

**2) Quadrant II** - E-Content which contain: Self-instructional material (digital Self Learning Material), e-Books, case studies, presentations etc. and also contains Web Resources such as further references, Related Links etc.

**3) Quadrant III** - The Discussion forum for raising of doubts and clarifying the same by the Course Coordinator.

**4) Quadrant IV** - Assessment, which contains Problems and their Solutions. They can be in the form of Multiple Choice Questions, Fill in the blanks, Matching Questions, Short Answer Questions, Long Answer Questions, Quizzes, Assignments and Solutions.

# *Job Roles*



Data Scientist



Health Care Analyst



Software Engineer



Web Developer



Business Analyst



Data Analyst



Market Research Analyst



Project Manager



Big Data Analyst

# *Ambassadors of Social Good*

Ample opportunities to get involved with our social organisation across India help students develop a sharp mindset to create impact first and then deliver on shareholder return. It's not surprising to find our alumni at an organisation such as the Worldbank, the United Nations which is partnered with our in-house think tank - Ayudh.



(<https://www.ayudh.in>)

# *Impact Entrepreneurship*

Students also have the opportunity to bring fruition to their ideas with our in-house business incubator - Amrita TBI. Amrita TBI is a non-profit startup incubator supported by Govt. of India and Amrita Vishwa Vidyapeetham that funds, mentors and nurtures ideas, startups and entrepreneurs. National Award winner for being the best startup incubator in India.



(<https://www.amritatbi.com>)





## Placements\*

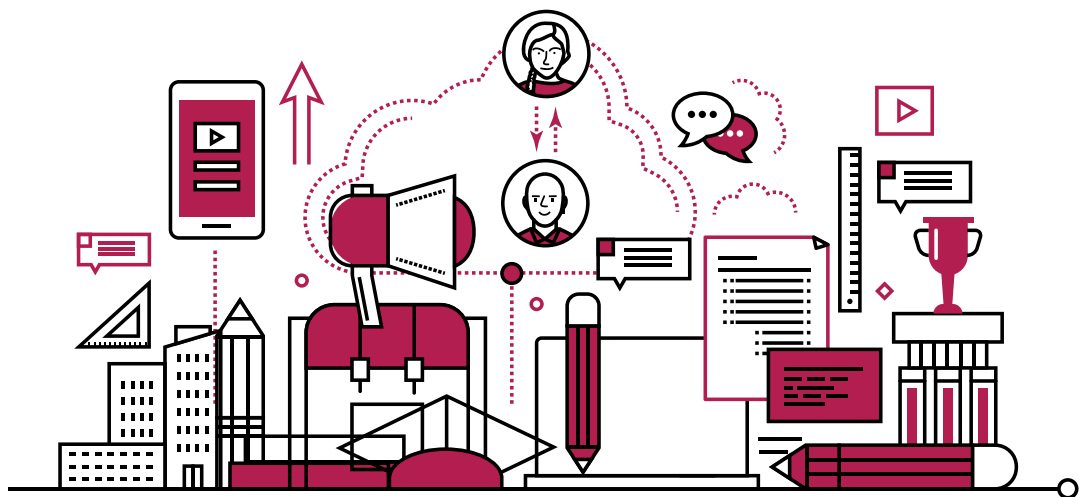


## International University Partners

Go Global with our International Programs: Student Exchange program, Study Abroad Program and 3+1+ x Integrated Masters Program



\*Data is based on on-campus information



## Placements\*

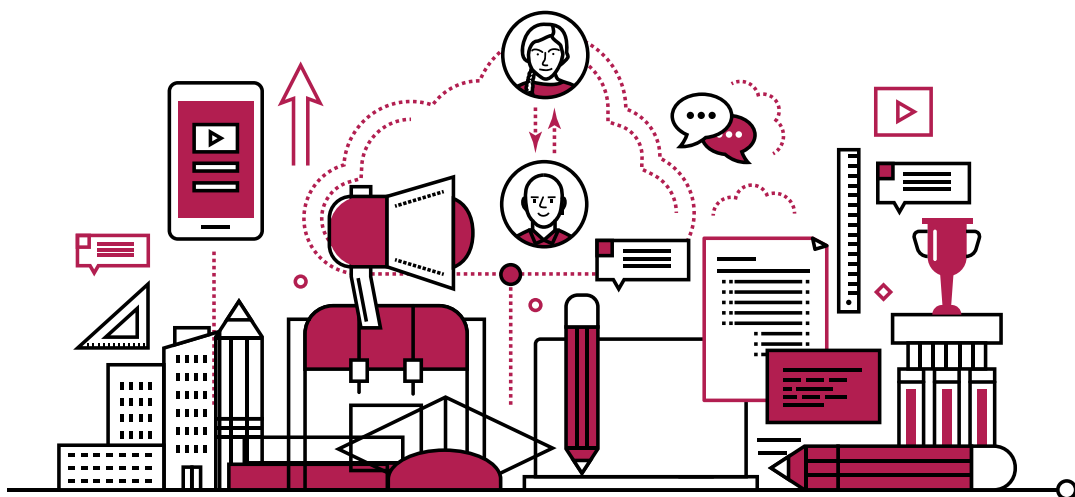


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\*Data is based on on-campus information



# *The Amrita Advantage*



**UGC  
Entitled**

UGC Entitled  
Programs



World-Class Faculty



Industry Aligned  
Curriculum



Career Placement  
Assistance



7<sup>th</sup> Best University  
in India



20000+ Students  
(Offline)



1650+ Faculty



27 Collaborations with  
Top World-Ranked Universities



16 Constituent Schools



Strong Alumni Network



Affordable



Master the advanced tools,  
techniques, algorithms  
reshaping the digital landscape



Job Relevant  
Industry Certifications  
from CISCO, Amazon,  
EC Council, IBM



Wide range of electives  
in areas of IOT,  
Cyber physical  
Systems, Cloud computing,  
Cognitive Computing



50+ industrial case  
studies & 10+  
Mini projects



Opportunity to work in  
research centers on  
industry projects



# *Eligibility»*

## **Students with Indian Education:**

Direct admissions for learners with an aggregate minimum of 45% marks.

- > Candidates must have passed 10 + 2
- > Candidates who have passed 3-year diploma can also apply

Candidates with work experience will have an added advantage for admissions.

## **Students with a Foreign Education:**

Certificate of Equivalence from the Association of Indian Universities is needed. This is required for any student with a Foreign Education who wishes to apply to an Indian University. Please refer to Foreign Education who wish to apply to any Indian University (<https://aiu.ac.in>)



## ***Fee Structure\****

<b>Semester</b>	<b>Amount</b>
<b>Semester 1</b>	<b>Rs 25000</b>
<b>Semester 2</b>	<b>Rs 25000</b>
<b>Semester 3</b>	<b>Rs 25000</b>
<b>Semester 4</b>	<b>Rs 25000</b>
<b>Semester 5</b>	<b>Rs 25000</b>
<b>Semester 6</b>	<b>Rs 25000</b>
<b>Total**</b>	<b>Rs 150000</b>

\* Registration fee - Rs. 500/-

\* Examination fee: Rs. 2000 per semester

\* If you are a foreign national, please email [ahead@amrita.edu](mailto:ahead@amrita.edu)

**Monthly Instalment  
(6 Months)**

**Rs. 4167**



# Amrita AHEAD Scholarships

Categories	Eligible for	Scholarships*
Merit	UG: Above 60% in 12th or equivalent	10%
	PG: Above 6.0 CGPA or equivalent at UG level	
	Enrolled AHEAD UG/PG: Above 7.5 CGPA	
Defence Personnel	All in service or retired	20%
Martyr's	Wards of Martyred soldiers	20%
Sports	Sports listed under IOC, IOA, AIU, MYAS	25% to 100%
Divyang	Differently-abled	20%
Amrita Vidyalayam	Selection process	20%
Amrita Alumini	CGPA: above 6 / above 7.5	10% / 20%
Amrita Talent Hunt	National/International events recognized by the Board	20%

\*Scholarships will be approved and then reviewed on a regular basis.

# Student Testimonials



"I searched on the internet for an online course to study from home. I found Amrita Ahead along with some other online programs. I researched everything and found the "Online BCA Program. My experience with Amrita has made me a better version of my present self. Learning in Amrita has made me develop a lot of self-discipline and an urge to get out of my comfort zone to improve myself as an individual. I'm grateful for being a part of the Amrita Family and growing along with it."

**Ajitha**  
Online BCA



"Amrita never disappoints! It has become an emotion other than an institution for me. I was fortunate to follow my dreams through Amrita's Online BCA program. The faculty's tremendous efforts in making each Online session fruitful and interactive have enhanced our academic and interpersonal skills. Being at a global university, Amrita Ahead allowed me to meet people worldwide and learn new things from them. I will always treasure the memories of Amrita."

**Ayesha**  
Online BCA



It has been a truly invaluable learning experience through the online platform offered by Amrita Vishwa Vidyapeetham. As for the assistance, feedback, and general help of the teachers and our advisor, I found it excellent.

Aside from the course plan, Amrita Ahead is constantly releasing the most recent webinars by experts to help students understand current situations and challenges. After multiple college dropouts, I believe that Amrita Ahead is always a good place to broaden my knowledge. always positive and motivating.

**Asarudin.A**  
Online BCA



"I had been searching for online BCA degree programs for a long time, and after thorough research on the web, I learned about Amrita AHEAD. What attracted me the most was the industry-ready certifications that came along with the course. At Amrita, industry experts and professors conduct guest lectures and workshops regarding new technologies. Truly, Amrita AHEAD is India's best Online education platform for upcoming BCA students looking forward to a bright career."

**Anirban Bhadra**

Online BCA



"The knowledge and skills I've developed through my study with the Online BCA have made me competitive and have increased my confidence as a biostatistician. I felt overwhelmingly supported as a student in Amrita Ahead Online BCA program."

**Sruthi Jeyachitran**

Online BCA



"I'm Mohit Sai, as being specially abled student, I needed an extra attention for my online degree and to my surprise, Amrita Ahead were able to clarify my doubts. The syllabus is very easy to digest for everyone. Amrita Ahead Faculty are friendly and helpful. My fellow mates are very helpful and very supportive."

**Mohit Sai**

Online BCA



"As a UI/UX designer and developer with more than 3.5 years of experience, I started looking for the finest online BCA course for me when I wanted to gain additional technical knowledge. The ideal learning environment is created by AMRITA AHEAD'S online lectures in conjunction with live sessions. The lecturers at AMRITA Ahead are incredibly helpful in resolving even the slightest of our doubts. I hope to continue learning since my education at AMRITA has helped me become more disciplined in my life."

**Bharat Jadhav**

Online BCA

*(Data is based on on-campus information)*



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**94474 98840**



**ahead@amrita.edu**



**<https://onlineamrita.com>**



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**[www.linkedin.com/company/amrita-ahead](http://www.linkedin.com/company/amrita-ahead)**



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VISHWA VIDYAPEETHAM | **Online**

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