

Get an  
**Online** certified  
**Degree in MCA**  
Specialization: Cybersecurity



# *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 interplay 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 RANKINGS IN INDIA 2021

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

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

*“What makes Amrita students special? Western science leads to knowledge. Eastern science leads to understanding. Amrita has both Western and Eastern traditions in education.”*

**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 AICTE 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* *OurMCA*» *Specialization: Cybersecurity*

Our online Masters in Computer Application with a focus on Cyber Security is India's first Cyber Security program designed to help you take up Technical, Managerial, and Administrative roles in Industry, Government, NGOs, Public and Private Sector companies. This is a future proof program that will provide expertise for both technical and managerial jobs in Cyber Security.

This program aligns with NASSCOM's National Occupational Standards and the Data Security Council of India's Cyber Security Skills. A unique curriculum and certifications are tailored to build proficiency in both defensive and offensive skill sets.



*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	2
Maximum	4



# Curriculum»

## Semester 1 MCA (Specialization: Cybersecurity)

Foundations of Computer Systems

Mathematical Foundations for Computer Applications

Essentials of Cybersecurity

Elective I

Elective II

Elective III

## Semester 2 MCA (Specialization: Cybersecurity)

Data Structures and Algorithms

Mathematics Elective

Cloud Computing

Elective IV

Elective V

Elective VI

## Semester 3

# MCA (Specialization: Cybersecurity)

Software Project Management

Research Methodology

Elective VII

Elective VIII

Elective IX

Elective X

Minor Project

## Semester 4

# MCA (Specialization: Cybersecurity)

Project

Elective XI



# Industry relevant Electives

(Training to earn Amazon certification and badges)

## Industry Certification Training

- > Cisco: Cisco Certified CyberOps Associate
- > Fortinet: Fortinet Network Security Expert
- > CompTIA: CompTIA Certified Penetration Tester
- > EC-Council: Certified Ethical Hacker
- > Amrita Ahead is currently offering courses from Coursera and SWAYAM - NPTEL.

## Other Industry-relevant Electives

- > Network Security
- > Python Scripting for Security
- > Fundamentals of Cybersecurity Operations
- > Cloud and Infrastructure Security
- > Cybersecurity Governance, Risk and Compliance
- > Cyber Security Law
- > Web Application Security
- > Machine Learning and Artificial Intelligence in Cybersecurity
- > Mobile Security and Defence
- > Cyber Forensics
- > Blockchain and Decentralized Applications
- > VAPT (Vulnerability and Penetration Testing)
- > Security Architecture for Databases and Applications
- > System Security

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

**Exclusive Mentorship:** World-renowned Ethical Hacking Team (**Team BiOs**) ranked #20 worldwide and #1 in India to provide mentorship through hands-on exercises.

**Platform, Access & Availability:** Comprehensive online teaching and laboratory platform that blends instructor-led theory with easy to use tools and simulated threat landscapes. All courses will have individual mentors that are available for daily interactions and personalised assistance.



# Online Class Schedule»

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

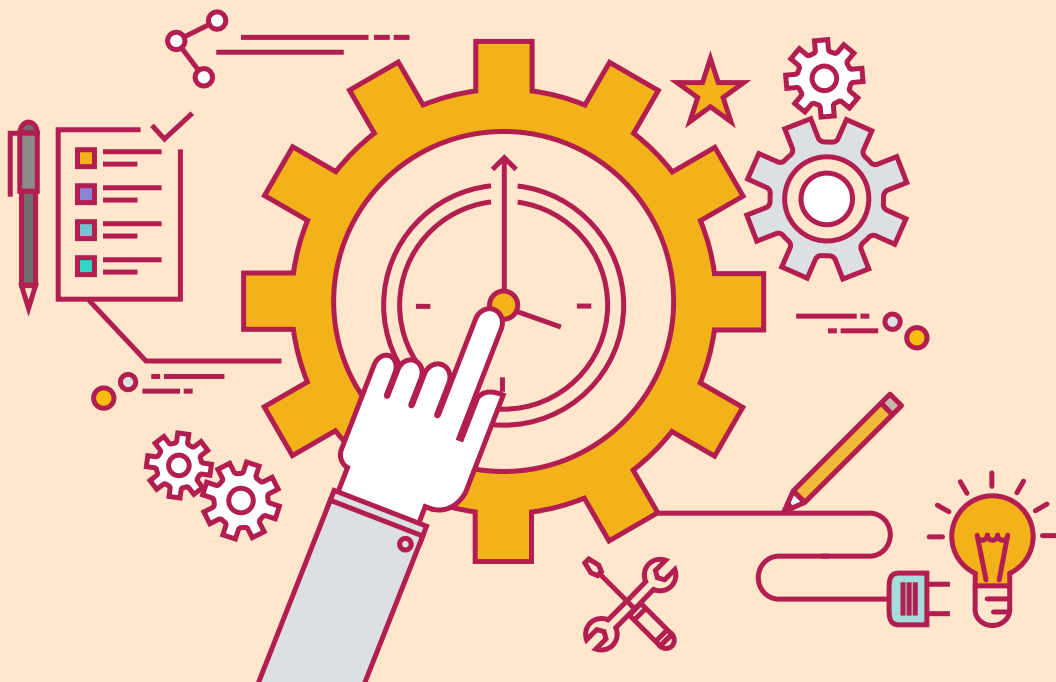
**Reading material & video lectures**

Uploaded every week prior to the live session

**Discussion forums**

Active for entire week. Doubts are clarified within 2 days.

**Quizzes & assignments**



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



Security Engineer



Network Security  
Consultant



Cyber Forensics  
Specialist



Penetration Tester



Ethical Hacker



Application  
Security Analyst



Governance Risk  
Compliance Analyst



Cloud Security  
Analyst



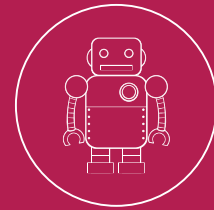
Cyber Security Analyst



Cyber Security  
Professional



Cyber Security  
Operations Manager



Cyber Compliance  
Audit Specialist



Cyber Security & Artificial  
Intelligence Specialist



Security Systems  
Administrator



Security Architect



Offensive Security  
Certified Professional



Defensive Security  
Certified Professional



## *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 World Bank and 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>)



## *Industry Partners*



## *International University Partners*

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



## *Training Partners*



\*Data is based on on-campus information

# The Amrita Advantage



AICTE approved  
Programs



World-Class  
Faculty



Industry Aligned  
Curriculum



Career Placement  
Assistance



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



20000+ Students  
(Offline)



1650+  
Faculty



27 Collaborations  
with Top World-Ranked  
Universities



16 Constituent  
Schools



Immersive Learning  
experience



Affordable  
fees



Course  
Mentors



First MCA Cyber Security  
program where students can  
earn 6 of the most sought after  
industrial certifications  
in Cyber Security



MCA - Cyber Security  
Masters Degree from  
nationally & internationally  
top-ranked University,  
recognized as Institute  
of Eminence by UGC



Learning support  
from Industry Experts



Industry Aligned  
Curriculum



Amrita Alumni status  
upon graduation

# Eligibility»

## Students with Indian Education:

Direct admissions for learners with a minimum of 50% marks in UG degree. Learners below 50% marks will be also considered for admissions following a short interview.

- > Candidates must have passed 10 + 2
- > Candidate must have completed an undergraduate degree in Bachelor of Computer Applications (BCA) or Bachelor's Degree in Computer Science / Engineering or Bachelor's Degree in Science with Mathematics at 10+2 level
- > Students in their final year can apply with the last completed semester results.

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



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

<b>Semester</b>	<b>Amount</b>
<b>Semester 1</b>	<b>Rs 45000</b>
<b>Semester 2</b>	<b>Rs 50000</b>
<b>Semester 3</b>	<b>Rs 50000</b>
<b>Semester 4</b>	<b>Rs 50000</b>
<b>Total**</b>	<b>Rs 195000</b>

- \* Registration fee - Rs. 500/-
- \* The examination fee for each semester is Rs. 2500/- and should be paid along with the semester fees
- \* If you are a foreign national, please email ahead@amrita.edu

**Zero Cost EMI Options available**

# 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



"The faculties are always ahead of the technology trends. Their guidance during my studies made me so confident in choosing the right technology on my entrepreneurial journey. My alma mater also allowed me to interact with many industry veterans, CEOs, and experts through their industry connect programs."

**Gokuldas G**

Founder, Voteran Political Social Network & Good Afternoon Lunch



"I owe a lot to Amrita faculties for my technological knowledge and problem-solving skills. They have a profound understanding of what they teach, and how it should be implemented in real-life scenarios. The projects we worked on at Amrita were on deep real-life issues impacting many people."

**Vijitha V**

Founder, Comet Chat Radio



"Amrita has all the resources for a student to succeed in life. The value-based education delivered here changed my perspective on education and life. The learning methodology practised here prepares students to ace their career."

**Arjun V**

Backend developer (Python-Django),  
Orange & Lemons, Amsterdam



"The facilities and opportunities along with first-class education that you get from Amrita can help you achieve your career goals. The faculty's extensive research experience in the areas they teach helps students to understand the practical aspects. The teaching-learning process makes students job-ready before the course completion."

**P S Narayanan**

Phone Parloan



**Riddhi Shah**



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



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