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.
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.”
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
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.
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

<table>
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<tr>
<th>Limits</th>
<th>No. of years</th>
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<tbody>
<tr>
<td>Minimum</td>
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<tr>
<td>Maximum</td>
<td>4</td>
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</table>

*Certificate in 6 months and Diploma in 1 year
## 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
- Mathematical Foundations for Cryptography
- 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

### Semester 4

**MCA** *(Specialization: Cybersecurity)*

- Project
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

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 Forensicst
- 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 Bi0s) 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 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.
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.

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.

amrita tbi (https://www.amritatbi.com)
Placements*

Industry Partners

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
The Amrita Advantage

- AICTE approved Programs
- World-Class Faculty
- Industry Aligned Curriculum
- Career Placement Assistance

- 5th 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

- Exit Options with Certificate / Diploma
- 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

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<tr>
<td>Semester 1</td>
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* If you are a foreign national, please email ahead@amrita.edu

**Low Cost EMI Options available**
# Amrita AHEAD Scholarships

<table>
<thead>
<tr>
<th>Categories</th>
<th>Eligible for</th>
<th>Scholarships*</th>
</tr>
</thead>
</table>
| Merit                       | UG: Above 60% in 12th or equivalent  
|                             | PG: Above 6.0 CGPA or equivalent at UG level                                 | 10%           |
|                             | 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.*