Get an Online certified Degree in MCA
Specialization: Artificial Intelligence
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

"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."
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 focuses 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 Artificial Intelligence is a 2-year postgraduate online MCA programme with a specialization in Artificial Intelligence. The program is designed to groom technically sound professionals in advanced learning systems & methodologies based on the algorithms of Artificial Intelligence. This programme is hands-on and follows an industry mentored curriculum which equips its students with applicable knowledge in cutting edge technologies.
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>
<thead>
<tr>
<th>Limits</th>
<th>No. of years</th>
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<tbody>
<tr>
<td>Minimum</td>
<td>2</td>
</tr>
<tr>
<td>Maximum</td>
<td>4</td>
</tr>
</tbody>
</table>

(PG Diploma exit option after 1 year applicable)
Semester 1

MCA AI

- Foundations of Computer Systems
- Mathematical Foundations for Computer Applications
- Essentials of Cybersecurity
- Elective I
- Elective II
- Elective III

Semester 2

MCA AI

- Data Structures and Algorithms
- Computational Linear Algebra
- Cloud Computing
- Elective IV
- Elective V
- Elective VI
Semester 3
MCA AI

Software Project Management
Research Methodology
Elective VII
Elective VIII
Elective IX
Elective X

Semester 4
MCA AI

Project
Industry relevant Electives
(Training to earn Amazon certification and badges)

Industry Certification Training
- Amazon AWS certifications in Data Analytics
- Amazon Cloud Architect
- IBM Practitioner

Other Industry-relevant Electives
- Foundations of Machine Learning
- Natural Language Processing
- Business Analytics and Visualization
- Deep Learning for AI
- Computer Vision
- Complex Network Analysis
- Data Engineering for AI
- Reinforcement Learning
- IoT for AI
- Artificial Intelligence
- Artificial Intelligence for Robotics
- No-SQL Databases
- Applications of Machine Learning
- Web Analytics
- Computational Statistics
- AI for Drug Discovery and Target Validation
- Representation Learning
- Medical Signal Processing
- Applied Predictive Analytics
- Data Visualization
Industry-relevant tools
Courses offer hands-on sessions using industry relevant Artificial Intelligence and Data Science Python packages such as SciPy, Scikit-Learn, sympy, matplotlib, NLTK, BERT. Hands-on sessions integrated into courses include Tensor flow, Tableau, Keras, Anaconda, RDBMS: SQL; Apache Spark; SPARKQL; SPARKML, PySpark and complex networks tools like Gephi/NetworkX.

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 (Final Semester)
In areas of Machine Learning, NLP, Computer Vision, Deep Learning, Cloud Computing & Distributed Computing, Block chain, IoT.

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

- Artificial Intelligence / Machine Learning Developer
- Software Developer
- Data Analyst
- AWS or Azure Data Scientist
- Business Intelligence Developer
- Deep Learning Engineer
- Sr. Data Science Software Engineer
- Data Architect
- Quantitative Analyst
- Operations Analyst
- Big Data Engineer
- Robotics Engineer
- Computer Vision Engineer
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.amритatbi.com]
**Placements***

- Mu Sigma
- Accenture
- Wipro
- Cisco
- Infosys
- Cognizant
- Google
- Microsoft
- Samsung
- Caterpillar

**Industry Partners**

- Microsoft
- Cisco
- CII
- Confederation of Indian Industry
- Amazon Web Services
- Academy
- Fortinet
- IBM
- CompTIA
- Amrita TBI

**International University Partners**

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

- Paderborn University
- University of Twente
- Oakland University
- The University of New Mexico

*Data is based on on-campus information*
The Amrita Advantage

AICTE Approved

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

Strong Alumni Network

Affordable

Dedicated Course Mentors

Industry 4.0 aligned curriculum designed to equip yourself to succeed in the AI-Powered future

Master the most 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 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 any undergraduate degree with Mathematics at 10 + 2 level or at graduation 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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>Rs 45000</td>
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<tr>
<td>Semester 2</td>
<td>Rs 50000</td>
</tr>
<tr>
<td>Semester 3</td>
<td>Rs 50000</td>
</tr>
<tr>
<td>Semester 4</td>
<td>Rs 50000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Rs 195000</strong></td>
</tr>
</tbody>
</table>

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

*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

Data is based on on-campus Information
Apply now: https://aoap.amrita.edu/ahead/index