



**AMITY**  
UNIVERSITY  
ONLINE



# MASTER OF COMPUTER APPLICATIONS

**USA, UK & CANADA ACCREDITATIONS**





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# MESSAGE FROM **CHAIRMAN**



**Mr. Ajit Chauhan**  
Hon'ble Chairman,  
Amity University Online,

I am delighted to extend a warm welcome to all of you who have chosen to embark on your educational journey at Amity University Online.

In today's fast-paced and interconnected world, the pursuit of knowledge has never been more accessible. Amity is committed to providing you with a world-class education that transcends geographical boundaries. Whether you are a working professional seeking to advance your career, a dedicated lifelong learner, or someone taking your first steps into higher education, our digital platform is designed to accommodate your needs and aspirations.

The modern landscape of higher education is evolving, and so are we. Our dedicated faculty members, staff, and state-of-the-art technology are here to support your educational journey. You'll find a wealth of resources at your disposal, from interactive online courses to digital libraries, forums for academic discourse, and innovative tools to facilitate your learning experience. As you embark on your studies, I encourage you to engage with your peers and faculty, ask questions, seek out challenges, and embrace the opportunities that this digital age offers.

Remember, your education is an investment in your future. Each lesson learned, each assignment completed, and each milestone achieved brings you closer to your goals. It is my hope that your time at Amity will not only equip you with knowledge and skills but also empower you to be a positive force in the world, contributing to the betterment of society.

I encourage you to seize this opportunity and make the most of your time here. Stay curious, stay engaged, and never stop striving for excellence. I wish you a successful and rewarding educational experience and look forward to celebrating your achievements in the years to come.

MESSAGE FROM

# VICE CHANCELLOR

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## **Prof. Dr. Balvinder Shukla**

Vice Chancellor, Amity University Online

Amity University Online epitomizes an unwavering pursuit of excellence, cutting-edge innovation, and transformative learning. Rooted in knowledge, research, and comprehensive education, your learning journey at Amity Online is tailored to transcend knowledge barriers and shape your destiny.

At Amity Online, we embrace a legacy of brilliance that empowers you with industry-centric skills, knowledge and expertise to achieve success confidently through lifelong learning and values.

## MESSAGE FROM **DIRECTOR**

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**Prof. Abhinash Kumar**  
Director, Amity University Online

Amity University Online provides 'Anytime, Anywhere' educational 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.





## ABOUT AMITY UNIVERSITY

# ONLINE

Bringing together pedagogy, content and technology, Amity University Online is home to a range of University Grants Commission (UGC) entitled programs meant for anytime, anywhere learning. Amity University Online serves the educational aspirations of students across the globe with Master's, Bachelor's, Post Graduate Certificates and Certificate programs through its well-researched curriculum, renowned faculty, cutting-edge technology and close industry-academic partnerships.

Amity University Online is devoted to creating a transformative learning environment. In today's environment, when content is mobile and available anytime, anywhere, learning is truly a click away.



# A LEADING GLOBAL EDUCATION GROUP

Amity Education Group is one of the largest education groups, established over twenty years ago, offering globally benchmarked education right from pre-school to Ph.D. level with over 400 UG & PG programs across various disciplines in education.



**175,000**

Students



**225,000**

Online Students



**6,000+**

Faculty



**120,000**

Alumni Worldwide



**1,200**

Acres of Campuses

## UNIVERSITIES IN

- NOIDA
- GURUGRAM
- GREATER NOIDA
- JAIPUR
- MOHALI
- LUCKNOW
- MUMBAI
- GWALIOR
- RAIPUR
- KOLKATA
- RANCHI
- PATNA

## INTERNATIONAL CAMPUSES IN

- LONDON
- DUBAI
- SINGAPORE
- NEW YORK
- SAN FRANCISCO
- ABU DHABI
- MAURITIUS
- SHARJAH
- SOUTH AFRICA
- AMSTERDAM
- NAIROBI
- TASHKENT

## ABOUT PROGRAM

# MASTER OF COMPUTER APPLICATIONS

**LEARNING EFFORTS:** 12/15 HRS A WEEK

**DURATION:** 2 YEARS | **CREDITS:** 103

Amity University Online Master of Computer Applications (MCA) is a 2-year degree Program that aims to equip graduates with the advanced tools, technologies and applications in the IT industry to meet the constantly growing requirement of IT professionals.

The industry-oriented Program helps learners to develop a thorough understanding of various tools and programming languages in the development of better and faster applications.

## SPECIALISATIONS

- MCA with Specialisation in Blockchain (In collaboration with eCornell)
- MCA with Specialisation in ML & AI (In collaboration with eCornell)
- MCA with Specialisation in Machine Learning (In collaboration with TCS iON)
- MCA with Specialisation in AR & VR (In collaboration with TCS iON)





# PROGRAM CURRICULUM

## SEMESTER 1

### SUBJECT NAME

- Advanced Database Management Systems
- Advanced Software Engineering Principles
- Professional Communication
- Core Java
- Graph Theory and Combinatorics

### COURSE TYPE

- Core Courses
- Core Courses
- VAC
- Core Courses
- Core Courses

## SEMESTER 2

- Research Methodology
- Data Structures and Algorithm Design
- Network Security and Cryptography
- Introduction to Data Analytics
- Image Processing Techniques
- Artificial Intelligence and Robotics
- Routing & Switching Essentials
- Statistics Using R
- Cognitive Analytics & Social skills for professional

- Core Courses
- Core Courses
- Core Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- VAC

## SEMESTER 3

- Cloud Infrastructure and Services
- UNIX / Linux Programming
- Advanced Web Technologies
- Internet of Everything
- Machine Learning using Python
- Software Testing and Reliability Duplicate
- Professional ethics
- Seminar(Evaluation)
- Quantitative Aptitude

- Core Courses
- Core Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- Specialisation Elective Courses
- VAC
- NTCC
- Employability & Skill Enhancement

## SEMESTER 4

- Major Project

- NTCC

## PROGRAM

# FACULTY



**Prof. (Dr.) Ronald C Darnell**

Ph.D, Organization Management - IT Management,  
Capella University, USA,  
Professor and program Coordinator -  
Amberton University,  
Visiting Professor- Devry, University,  
Professor - Parker University,  
Principal Consultant & Agile Coach- Vizient, Inc.



**Ms. 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

# ELIGIBILITY

- 10th Class Certificate (Completing 10 years of formal schooling)
- 12th Class Certificate (Completing 12 years of formal schooling)
- Graduation Degree (BCA is preferable)\*

\* Students without Mathematics at 10+2 or graduation, can also apply after qualifying the Bridge course.

## ACCREDITED. RESPECTED. TRUSTED.



ज्ञान विज्ञान विमुक्तये

Programmes Recognised  
by Distance Education  
Bureau (DEB) UGC



Amity's Online MBA has been  
ranked by **QS as #37 Worldwide**  
In 2021 ranking.



SENIOR COLLEGE AND  
UNIVERSITY COMMISSION, USA

Asia's only not-for-profit  
university to get  
US regional accreditation



Accredited by  
National Assessment And  
Accreditation Council (NAAC)  
Grade 'A+'



Amity's Online MBA & BBA are  
the 1st and only EOCCS certified  
programmes in India



Accredited Member of Accreditation  
Council for Business School and  
Programme (ACBSP), USA



Association of  
Indian Universities



WORLD EDUCATION SERVICES

Recognised by  
World Education Services

## TESTIMONIAL



"I joined Amity University in the year 2010 to pursue the BCA Program. Based on my great learning experience, I decided to pursue an MCA program at the same college, even though I scored the top rank in the merit list and was qualified to get admissions in other government colleges also. I am proud to say that I made the right decision."

**Ashok Kumar Sharma**

Automatic Engineer at Desment Ballsera

## AMITY UNIVERSITY ONLINE

# ADVANTAGES



Live & interactive  
lectures by expert  
faculty



Web Proctored Mode  
for the freedom to take  
exams anywhere



World-class curriculum  
designed by eminent faculty  
& industry professionals



Learn from the  
leading global  
faculty



Regular webinars  
by industry  
leaders



Placement  
drive and  
career assistance



International  
collaborations with  
Ivy League universities



Easy-to-use LMS  
accessible anytime,  
anywhere



Strong alumni  
network



Exemplary employer  
rating of various  
programs

ALUMNI

# WORKING AT







**AMITY**  
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