



# ACHARYA INSTITUTE OF GRADUATE STUDIES

Affiliated to BCU



- Engage with renowned faculty and access LinkedIn extensive programs.
- Gain hands-on experience with certifications in AWS, ACCA, and more.
- Expand horizons with international immersion and global exposure.
- Benefit from personalized mentorship for tailored academic support.
- Access a digital library with rich resources for research and growth.
- Enjoy top sports facilities and expert training for holistic development.
- Achieve career success with 550+ companies visiting for placements annually.

**MCA**  
**AWS - CLOUD OPERATIONS**

Powered by



## About

The IT industry has undergone a serious transformation within the past few decades. Our collaboration with Cloud that allows students to gain hands-on experience in AWS Cloud Operations. The MCA program endows students with challenging opportunities to be a part of the IT industry on a worldwide stage.

## Career Scope

Graduates can find employment in a wide array of fields, reflecting the versatility of their education. Career opportunities include positions in government jobs, engineering, and the IT and software industry. Additionally, graduates may explore roles in data science, the equipment industry, and energy and power stations. Teaching and research also present viable paths.

## Eligibility

Graduation + 50% + Mathematics at 12th or UG  
+ entrance score



Duration  
**2** years

# COURSE CONTENT

## Semester 1

- The Art of Programming
- Discrete Mathematics
- Computer Organization and Architecture
- Theory of Computation
- Object Oriented Programming
- Data Structures

## Semester 2

- Operating Systems
- Database Management Systems
- Computer Networks
- Software Engineering
- The Design and Analysis of Algorithm
- Artificial Intelligence
- Unix Programming

## Semester 3

- Two Open Elective Papers
- Vertical I  
Java with four courses and a mini project
- Vertical II  
NET with four courses and a mini project
- Vertical III  
Business Intelligence and Data Analytics with four courses and a mini project
- Vertical IV  
Advanced Database with four courses and a mini project

## Semester 4

- Full time industry/research internship

## ENRICHMENT PROGRAM CONTENT

### 2 SEMESTERS

#### Part 1: Architecting on AWS

- Module 1: Architecting Fundamentals
- Module 2: Account Security
- Module 3: Networking 1
- Module 4: Compute
- Module 5: Storage
- Module 6: Database Services
- Module 7: Monitoring and Scaling
- Module 8: Automation
- Module 9: Containers
- Module 10: Networking 2
- Module 11: Serverless
- Module 12: Edge Services
- Module 13: Backup and Recovery

#### Part 2: Cloud Operations on AWS

- Module 1: Introduction to Cloud Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment
- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
- Module 8: Automate Scaling
- Module 9: Monitor and Maintain System Health
- Module 10: Data Security and System Auditing
- Module 11: Operate Secure and Resilient Networks
- Module 12: Mountable Storage
- Module 13: Object Storage
- Module 14: Cost Reporting, Alerts, and Optimization

## FEE STRUCTURE

Refer offer letter for the actuals.

Inclusions : Tuition Fee, University Registration, Eligibility Fee, Miscellaneous Fee, Laboratory Fee, Library Fee and Sports Fee.

Exclusions : Uniform & Stationery.

Examination fee as prescribed by the University / Board.

The program includes OBT,AMCAT/CoCube, soft skills training, domain-specific training, Long term Domain training and LinkedIn Learning. Students are also provided with a Complimentary Laptop

## Acharya Legacy

Founded in 1990, Acharya aims to revolutionize education. With over 12,000 students and 100+ academic programs annually, it stands among the global education elite. Located in India's technical hub, Bangalore, Acharya prioritizes innovation and knowledge. The institution fosters experiential and collaborative learning, shaping well-rounded individuals, evident in its diverse student population from 75+ countries.

**11** Institutions

**15** Research Centers

**100+** Programmes

**75+** Nationalities

**12000+** Students

**1000+** Eminent Faculty

**120** Acres State-of-the-Art Campus

**B Premnath Reddy**  
Founder Chairman  
Acharya Group

## Acharya Offerings - click on each to know more... >>

Academic Studio



Collaboration



Center of Excellence



Clubs



Digital Library



Laboratories



Research



Sports



Hostels



Habba



### PROGRAMS OFFERED

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