



# 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.

**B.C.A**  
**DATA SCIENCE**



## About

The three-year program is tailored for undergraduate students seeking expertise in Computer Applications and Data Science. In collaboration with IBM, Acharya presents an exceptional course designed by industry experts to ensure excellence in both learning and career progression. This partnership with IBM provides internships and job placement aid, facilitating students in acquiring work experience and transitioning seamlessly into the workforce post-training.

## Career Scope

After completing a BCA with a specialization in Data Science or Artificial Intelligence, graduates can explore a range of career paths in the rapidly growing and dynamic fields of data science and AI. Some potential options include data scientist, machine learning engineer, and artificial intelligence engineer, as well as roles such as big data analyst, business intelligence analyst, and AI research scientist. Graduates may also find opportunities as IoT (Internet of Things) specialists, AI consultants, natural language processing (NLP) engineers, or data science trainers and educators. This diverse array of career options reflects the increasing demand for skilled professionals in these cutting-edge fields.

## Eligibility

Pass in Pre-University / Higher Secondary / 10+2 / 'A' Level or equivalent of any recognized board or council in any discipline with English as one of the languages.

Or

Pass in Three-years Diploma in Engineering (technical course only) recognized by Board of Technical Education, Govt. Of Karnataka

**Duration**  
**3** years

# COURSE CONTENT

## Semester 1

- Problem Solving Techniques Using C
- Computer Organization and Architecture
- Discrete Mathematics
  - IBM CE - Software
  - Foundation Course - Basic

## Semester 2

- Data Structures using C
- Data Base Management Systems
- Numerical and Statistical Methods
  - IBM CE DBMS,MySQL and SQLite

## Semester 3

- OOPs Using C++
- Financial Accounting and Management
- Operating Systems
  - Data Visualization using R
  - Python
  - Watson Studio

## Semester 4

- Visual Programming
- Unix Shell Programming
- Operation Research
  - IBM Watson Services

## Semester 5

- Data Communications and Networks
- Software Engineering
- Computer Architecture
- Java Programming
- Microprocessor and Assembly Language
  - Project
  - Skill Development Course
  - Spark and Scala Fundamentals

## Semester 6

- Theory of Computations
- Systems Programming
- Cryptography and Network Security
- Web Programming
  - Capstone Project
  - Skill Development Course
  - Predictive Modeling using SPSS Modeler



## 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 Faculties

**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

Follow on Social Media

