Bachelor of Computer Application (BCA)
2023

Asian Institute of Management and Technology®

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Affiliated to Gauhati University & Dibrugarh University
Approved by Department of Higher Education, Government of Assam

BACHELOR OF
COMPUTER APPLICATION

- Duration - Three years
- Eligibility - 10+2 or equivalent
- Affiliated to Gauhati University
- Approved by Department of Education (Higher), Government of Assam

About the course

Computer Application combines the study of core theoretical principles with relevant practical experience. In addition to gaining knowledge and skills using software and hardware technologies, you will learn a range of contemporary techniques used in software development. By introducing fundamental concepts and practical methods, we prepare you to adapt to this fast-changing field of study.

SYLLABUS

First Semester :

- Computer Fundamental & ICT Hardware
- Communicative English
- Introduction to C Programming
- Mathematics-I
- Laboratory-C Programming (BCA 1.3) and ICT Hardware (BCA 1.1) (60+40=100 marks)

Second Semester :

- Data Structure and Algorithm
- Computer Based Accounting and Financial Management
- Digital Logic Fundamentals
- Mathematics-II
- Laboratory - Data Structure and Algorithm (BCA 2.1) and Accounting and Financial anagement (BCA 2.2) (50+50=100 marks)
- Environmental Studies.

Third Semester :

- Software Engineering
- Computer Organization and Architecture
- Database Management System.
- Object Oriented Programming in C++
- Laboratory - C++ programming (BCA 3.4) and DBMS (BCA 3.3) (50+50=100 marks)

Fourth Semester

- Operating System
- Web Technology
- Java Programming
- Minor Project
- Laboratory - Operating System (BCA 4.1), Web Technology (BCA 4.2) and Java Programming (BCA 4.3) (20+40+40=100 marks)

Fifth Semester

- System Administration using Linux
- Computer Networks
- Open Source Software
- Elective-5.4
- Laboratory - System Administration using Linux (BCA 5.1) and Open Source Software (BCA 5.3) (50+50=100 marks)

Sixth Semester

- Elective 6.1
- Elective 6.2
- Project Work

ELECTIVE 5.4

i.   Microprocessor and Assembly Language Programming (4-0-2-6)
ii. Automata theory and languages (5-0-2-6)
iii. Computer Oriented Numerical Methods and Statistical techniques (5-0-1-6)
iv. Animation (4-0-2-6)

ELECTIVE 6.1

i.   Programming with C# (4-0-2-6)
ii. Data Mining & Warehousing (5-1-0-6)
iii. Optimization Techniques (5-1-0-6)
iv. Object Oriented Analysis and Design (5-1-0-6)

ELECTIVE 6.2

i.   Mobile Applications (4-0-2-6)
ii. Cyber Law (5-1-0-6)
iii. Distributed Systems (5-1-0-6)

FEE STRUCTURE

SEMESTER	AMOUNT	
1st Semester	37,000	At the time of Admission
2nd Semester	37,000	
3rd Semester	37,000	
4th Semester	37,000	
5th Semester	37,000	
6th Semester	37,000	
GRAND TOTAL	2,22,000	

NOTE :

● Application Form	: Rs. 500/-	
● Library Fee	: Rs 2,000/-	At the time of Admission
● Uniform	: Rs. 6,500/-	
● Examination Fee	: As per University	
● University Registration Fee : As per University		

DOCUMENT REQUIRED :

● 10th Marks card & 10th Admit Card

● 12th Marks Card & 12th Pass Certificate (from Board / Council)

● Caste Certificate (for ST/SC/OBC)

● Oritinal Migration Certificate (for candidate outside Assam, Other Board   / Council)

● Passport size photograph (12 nos.)

● Address proof : PRC / Driving License / Voter ID Card / Adhar Card / Bank   Passbook etc.

NOTE : 5 sets of attested photocopies of all the above mentioned documents are to be submitted along with the original of the