



MAKOUT

Formerly known as
West Bengal University of Technology



Bachelor of Computer Application BCA

4 Years Full Time Program

www.inspiria.edu.in



Digitisation has entered into each and every aspect of our lives. Hence, the growing demand for software designing and development professionals can hardly be over-stated. The **Bachelor of Computer Application (BCA)** course introduces UG students to the vast field of Computer Science and Information Technology.



Bachelor of Computer Application is a 4 year course which is nearly equivalent with B.Tech/B.E in Computer Science or Information technology. BCA is a gateway to the world of opportunities in the ever-evolving world of computer science. The course of study covers a variety of topics in the computer programming and designing fields, and can prepare people for a wide variety of computer science related professions. BCA students have a vital role not only in IT field, also in **Management area**.



OBJECTIVES



01

To introduce students to the basic fundamentals of computer science and acquaint them with the latest trends in the fast changing IT industry.

02

To develop competent, innovative IT professionals who fulfill latest industry benchmarks.



03

To develop sound knowledge among students in theory, programming, communication, team work, organization and management skills.



04

To inculcate in students, IT based entrepreneurial skills.



COURSE MODULE

First Semester

- ▶ Digital Electronics
- ▶ Digital Electronics Lab
- ▶ Programming for Problem Solving through C
- ▶ Programming for Problem Solving Lab
- ▶ Principles of Management
- ▶ General Elective
- ▶ English & Professional Communication
- ▶ Life Skills & Personality Development
- ▶ Yoga/ Health & Wellness/ Sports

Second Semester

- ▶ Computer Architecture
- ▶ Basics of Web Design Using Html, CSS, Java Script
- ▶ Basics of Web Design Using Html, CSS, Java Script Lab
- ▶ Organization Behaviour
- ▶ General Elective
- ▶ Modern Indian Languages and Literature
- ▶ IT Skills
- ▶ Critical Thinking/ NSS/ Mental Health/Environmental Studies

Third Semester

- ▶ Python Programming
- ▶ Python Programming Lab
- ▶ Data Structure through C
- ▶ Data Structure Lab
- ▶ Principles of Marketing
- ▶ General Elective
- ▶ The Constitution, Human Rights and Law
- ▶ Understanding basics of Cyber Security

Fourth Semester

- ▶ Data Base Management System
- ▶ DBMS Lab
- ▶ Operating System
- ▶ Software Engineering
- ▶ Human Resource Management
- ▶ E-Commerce
- ▶ Society Culture and Human Behavior

Fifth Semester

- ▶ PHP WITH MYSQL
- ▶ PHP WITH MYSQL LAB
- ▶ Object Oriented Programming with Java
- ▶ Object Oriented Programming with Java Lab
- ▶ Entrepreneurship
- ▶ Financial management
- ▶ Internship

Sixth Semester

- ▶ Advance Java With Web Application
- ▶ Advance Java With Web Application Lab
- ▶ Unix and Shell Programming
- ▶ Unix and Shell Programming Lab
- ▶ Networking
- ▶ Customer relationship management
- ▶ Career planning and management

Seventh Semester

- ▶ Data Mining & Data Warehousing/Machine Learning / Pattern Recognition / Algorithm Analysis
- ▶ Data Mining & Data Warehousing Lab /Machine Learning Lab / Pattern Recognition Lab/ Algorithm Analysis Lab
- ▶ Research Methodology
- ▶ Research Methodology Lab
- ▶ Cyber Security
- ▶ Consumer Behavior
- ▶ Strategic management

Eighth Semester

- ▶ Cloud Computing / Block Chain Technology / Artificial Intelligence
- ▶ Cloud Computing Lab/ Block Chain Technology Lab / Artificial Intelligence Lab
- ▶ Statistical Analysis with R Programming
- ▶ Statistical Analysis with R Programming Lab
- ▶ Research Project

ELIGIBILITY

- Students seeking admission to BCA course should pass Higher Secondary (10+2)
- Examination of West Bengal Council of Higher Secondary Education or equivalent.



CAREER OPPORTUNITIES



**BLOCKCHAIN
INDUSTRY**



**CYBER SECURITY
EXPERT**



**DATABASE
ADMINISTRATOR**



**DATA
SCIENTIST**



**INTERNET
MARKETING**



**SOFTWARE
DEVELOPMENT**



**SOFTWARE
IMPLEMENTATION**



**SOFTWARE QUALITY
ASSURANCE**



**SOFTWARE
SUPPORT**



**SYSTEM
ADMINISTRATOR**



**SYSTEM
ENGINEER**



**UI:UX
DESIGNER**

FACULTIES



Saurav Bhaumik



Subhro Sarkar



Neha Thapa



Punam Kumari Prasad



Tanmoy Ghosh



Sujit Kumar Sharma



Anannya Konar



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