



# Guru Nanak Dev University

NAAC A++, UGC-Entitled

# BCA

Type

Ug Program

Mode

Online

Duration

3 Years

Total fees

₹ 97,600

# Guru Nanak Dev University

Guru Nanak Dev University (GNDU), established in 1969, is a leading public university committed to academic excellence, inclusive education, and societal advancement. Over decades, the University has built a strong foundation across disciplines such as Science, Arts, Management, Information Technology, and emerging technology domains. Guided by the values of Sri Guru Nanak Dev Ji, GNDU's academic philosophy emphasises integrity, equity, and knowledge that serves society.

# BCA

## Highlights

- ◆ Learner-friendly delivery with flexibility for those balancing education with professional or personal responsibilities.
- ◆ A curriculum anchored in Introduction to Programming in C, Introduction to Computers and Information Technology, Communication Skills in English-I, and Programming Laboratory-I, helping learners understand the subject from multiple angles.
- ◆ Faculty guidance and curated study resources encourage regular learning and clearer concept retention.
- ◆ Builds applied awareness through examples, activities, or projects connected to software requirements, data workflows, and user-facing digital systems.
- ◆ Creates a stronger base for higher studies, professional upskilling, or domain-relevant pathways in Software Developer, Web Developer, and System Support Executive and related software support, application development, IT operations, and systems-related roles, with added focus on analytical depth.

## Learning outcomes

- ◆ Within BCA from Guru Nanak Dev University, understand how Introduction to Programming in C, Introduction to Computers and Information Technology, Communication Skills in English-I, and Programming Laboratory-I shape practice within computer applications, programming, and IT systems.
- ◆ Apply concepts to interpret software requirements, data workflows, and user-facing digital systems and respond to practical questions.
- ◆ Review technology choices that consider usability, performance, and maintainability using evidence, context, and logic, accuracy, security awareness, and user focus.
- ◆ Build programs, database designs, web pages, and technical documentation that support effective communication and problem-solving.
- ◆ Demonstrate readiness to pursue deeper learning or relevant roles connected to Software Developer, Web Developer, and System Support Executive and related software support, application development, IT operations, and systems-related roles, while strengthening analytical depth.

## Eligibility Criteria

+2 with atleast 40% marks in aggregate or equivalent examination.

## Curriculum Overview

### Semester I (8 subjects)

- |                                                        |                              |
|--------------------------------------------------------|------------------------------|
| ◆ Introduction to Programming in C                     | ◆ Drug Abuse: Problem        |
| ◆ Introduction to Computers and Information Technology | ◆ Management and Prevention  |
| ◆ Communication Skills in English-I                    | ◆ Punjabi (Compulsory) - I   |
| ◆ Programming Laboratory-I                             | ◆ Punjab History Culture - I |

### Semester II (7 subjects)

- |                                                |                                      |
|------------------------------------------------|--------------------------------------|
| ◆ Introduction to Programming in C++           | ◆ Punjabi (Compulsory) - II          |
| ◆ Principles of Digital Electronics            | ◆ Punjab History Culture - II        |
| ◆ Numerical Methods and Statistical Techniques | ◆ Communication Skills in English'II |
| ◆ Programming Laboratory-II                    |                                      |



## Curriculum Overview (continued)

### Semester III (5 subjects)

- ◆ Computer Architecture
  - ◆ Database Management System
  - ◆ Computational Problem Solving using Python
  - ◆ Programming Laboratory-III
  - ◆ Environmental Studies (Compulsory)
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### Semester IV (5 subjects)

- ◆ Data Structure & File Processing
  - ◆ Information Systems
  - ◆ Internet Applications
  - ◆ System Software
  - ◆ Programming Laboratory'IV
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### Semester V (5 subjects)

- ◆ Applied & Discrete Mathematics
  - ◆ Computer Networks
  - ◆ Web Technologies
  - ◆ Operating System
  - ◆ Programming Laboratory'V
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### Semester VI (4 subjects)

- ◆ Computer Graphics
- ◆ Software Engineering
- ◆ Project
- ◆ Programming Laboratory'VI

## Fee Structure

| Fee heads        | Year 1          | Year 2          | Year 3          | Total           |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Application Fees | ₹ 1,600         | —               | —               | ₹ 1,600         |
| Exam Fee         | ₹ 7,000         | ₹ 7,000         | ₹ 7,000         | ₹ 21,000        |
| Course Fee       | ₹ 25,000        | ₹ 25,000        | ₹ 25,000        | ₹ 75,000        |
| <b>Total</b>     | <b>₹ 33,600</b> | <b>₹ 32,000</b> | <b>₹ 32,000</b> | <b>₹ 97,600</b> |