शासकीय कंप्यूटर प्रशिक्षण बोर्ड

Shaskiya Computer Training Board

(Run By GSIDC Nagpur)

DIPLOMA COURSE | COMPUTER AND INFORMATION TECHNOLOGY

Diploma in Computer Science & Engineering

Build practical foundations in programming, hardware, networks and software development.



DURATION	ELIGIBILITY	SUBJECTS	CERTIFICATE
3 Years	10th Pass	18	SCT Board

sctboard.in

About the Program

The Diploma in Computer Science & Engineering is a three-year course covering core computer concepts and practical areas of information technology. Students study programming, digital electronics, computer hardware, databases, operating systems, networks and web design, with mathematics and communication skills included in the curriculum.

The course also introduces software engineering, Java, Python, cyber security fundamentals and mobile application development. Major Project & Industrial Training provides an opportunity to apply learning to a project and workplace-related activities. Check the current course and assessment information with an authorised SCT Board study centre before applying.

01

18 Subjects
All important topics of the course together

3 Years Total
Practical lab training along with theory

02

03

10th Pass
Minimum eligibility

Online Exam
Online exam and result at the end of the course

04

05

Board Certificate
Marksheet and certificate, online verification

Who is this course for?

- 10th pass students
- Students interested in computing
- Aspiring programmers
- Learners seeking technical training

Program Highlights

01
Core computing foundations
Study computer systems, IT fundamentals, mathematics and digital electronics.

02
Programming practice
Learn programming concepts using C, C++, Java and Python.

03
Data and databases
Explore data structures and database management concepts.

04
Web and networks
Cover web technologies and computer networking fundamentals.

05
Current IT topics
Study cyber security fundamentals and mobile application development.

06
Project-based learning
Apply course learning through a major project and industrial training.

Program Curriculum

Diploma in Computer Science & Engineering · 3 Years · 18 Subjects

YEAR 1

MODULE 01

Module 1: Fundamentals of Computer & IT
Subject Code: CSE101 | Theory | Marks (Pass/Max): Theory 35/100
- » Computer components
- » Operating basics
- » File management
- » IT applications

MODULE 02

Module 2: Programming in C
Subject Code: CSE102 | Theory | Marks (Pass/Max): Theory 35/100
- » Variables and data types
- » Control statements
- » Functions
- » Arrays and strings

MODULE 03

Module 3: Digital Electronics
Subject Code: CSE103 | Theory | Marks (Pass/Max): Theory 35/100
- » Number systems
- » Logic gates
- » Boolean algebra
- » Digital circuits

MODULE 04

Module 4: Mathematics for Computer Science
Subject Code: CSE104 | Theory | Marks (Pass/Max): Theory 35/100
- » Algebra
- » Sets and relations
- » Logic
- » Statistics

MODULE 05

Module 5: Computer Hardware & Peripherals

Subject Code: CSE105 | Theory | Marks (Pass/Max): Theory 35/100

- Processor and memory
- Storage devices
- Input and output devices
- Hardware troubleshooting

MODULE 06

Module 6: Communication Skills & Professional Practice

Subject Code: CSE106 | Theory | Marks (Pass/Max): Theory 35/100

- Written communication
- Presentation skills
- Teamwork
- Workplace ethics

YEAR 2

MODULE 07

Module 7: Data Structures

Subject Code: CSE201 | Theory | Marks (Pass/Max): Theory 35/100

- Arrays and linked lists
- Stacks and queues
- Trees
- Searching and sorting

MODULE 08

Module 8: Object Oriented Programming (C++)

Subject Code: CSE202 | Theory | Marks (Pass/Max): Theory 35/100

- Classes and objects
- Inheritance
- Polymorphism
- File handling

MODULE 09

Module 9: Database Management System

Subject Code: CSE203 | Theory | Marks (Pass/Max): Theory 35/100

- Database concepts
- Relational models
- SQL basics
- Normalisation

MODULE 10

Module 10: Operating System Concepts

Subject Code: CSE204 | Theory | Marks (Pass/Max): Theory 35/100

- Processes and threads
- Memory management
- File systems
- Scheduling

MODULE 11

Module 11: Computer Networks

Subject Code: CSE205 | Theory | Marks (Pass/Max): Theory 35/100

- Network types
- Communication protocols
- IP addressing
- Network devices

MODULE 12

Module 12: Web Designing (HTML, CSS, JavaScript)

Subject Code: CSE206 | Theory | Marks (Pass/Max): Theory 35/100

- HTML structure
- CSS styling
- JavaScript basics
- Responsive page design

YEAR 3

MODULE 13

Module 13: Software Engineering

Subject Code: CSE301 | Theory | Marks (Pass/Max): Theory 35/100

- Development life cycle
- Requirements analysis
- Software testing
- Project documentation

MODULE 14

Module 14: Java Programming

Subject Code: CSE302 | Theory | Marks (Pass/Max): Theory 35/100

- Java syntax
- Classes and objects
- Exception handling
- Collections

MODULE 15

Module 15: Python Programming

Subject Code: CSE303 | Theory | Marks (Pass/Max): Theory 35/100

- Python syntax
- Data types
- Functions and modules
- File operations

MODULE 16

Module 16: Cyber Security Fundamentals

Subject Code: CSE304 | Theory | Marks (Pass/Max): Theory 35/100

- Security principles
- Common threats
- Safe online practices
- Access control

MODULE 17

Module 17: Mobile Application Development

Subject Code: CSE305 | Theory | Marks (Pass/Max): Theory 35/100

- Mobile app concepts
- User interface basics
- App components
- Testing fundamentals

MODULE 18

Module 18: Major Project & Industrial Training

Subject Code: CSE306 | Theory | Marks (Pass/Max): Theory 35/100

- Project planning
- Requirement documentation
- Project development
- Training report

Skills & Tools

You will work hands-on with these during the course.

Computer operation	**C programming**	**C++ programming**	**Java programming**
Python programming	**Web design**	**SQL basics**	**Hardware basics**

Career Opportunities

After the course you can work in these fields.

Junior Programmer
May work with software teams in IT firms or organisations with in-house systems.

Web Design Assistant
May support website creation and updates at agencies or business teams.

Computer Support Assistant
May assist users in schools, offices or computer service centres.

Hardware Service Assistant
May help with computer setup and basic servicing at service centres.

Database Assistant
May support data entry and database tasks in offices or IT teams.

Network Support Assistant
May assist with basic network operations in offices or service providers.

Get Certified

After completing the course and passing the online exam, the Shaskiya Computer Training Board marksheet and certificate are given, which are verified on the website with a QR code.



FAQs

What is the minimum eligibility for this course?
The minimum qualification is 10th Pass. Confirm any current admission conditions with an SCT Board authorised study centre before applying.

How long is the course?
The course duration is 3 years.

What is the mode of study?
Study mode and practical arrangements may vary by authorised study centre. Contact your preferred centre for current details before enrolment.

How are students assessed?
Refer to the current course assessment scheme for examination and practical details. Your authorised study centre can provide the applicable instructions.

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LET'S TALK

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For admission: sctboard.in/addmission-form