शासकीय कंप्यूटर प्रशिक्षण बोर्ड

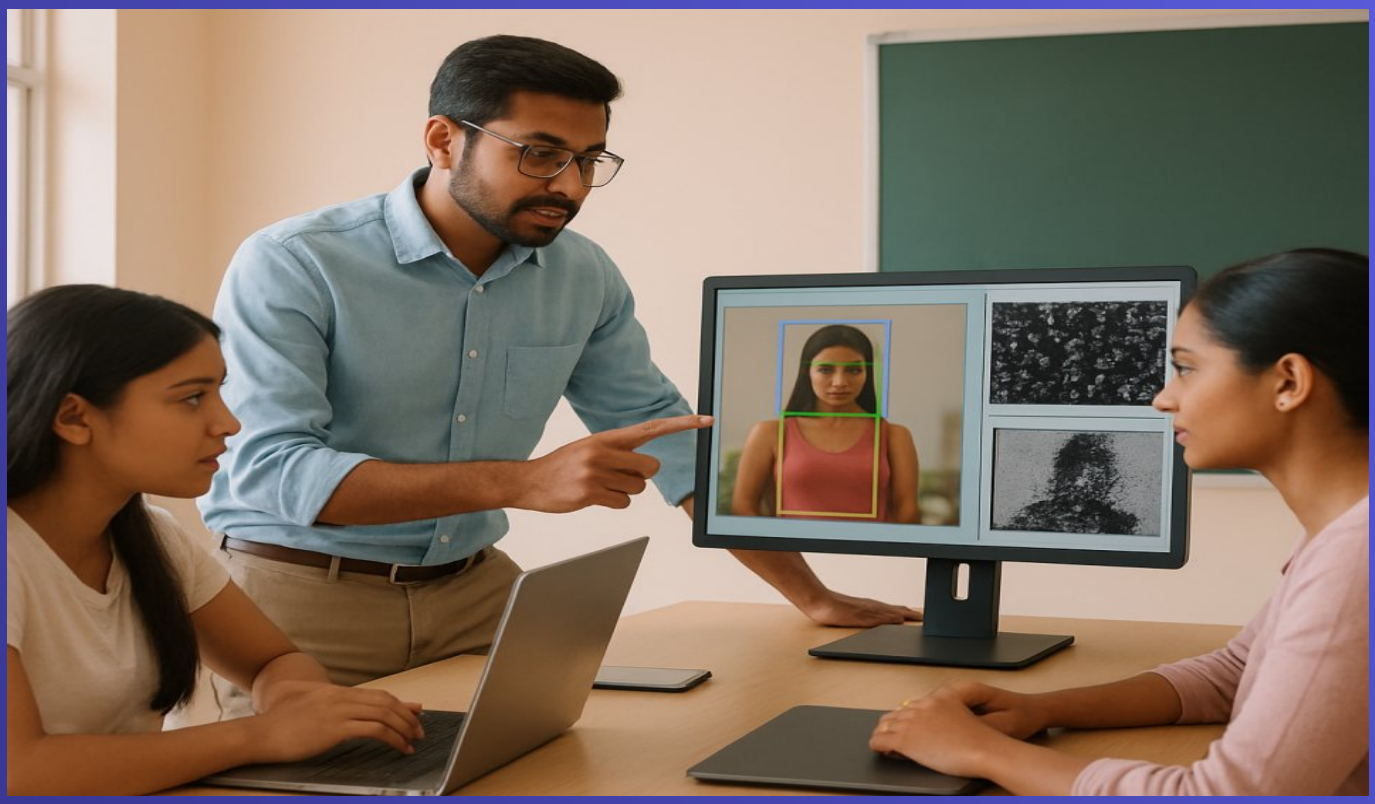
Shaskiya Computer Training Board

(Run By GSIDC Nagpur)

CERTIFICATE COURSE | IT & TECHNOLOGY SECTOR

Computer Vision

Learn practical computer vision concepts, tools and project skills in six months.



DURATION	ELIGIBILITY	SUBJECTS	CERTIFICATE
6 Months	12th Pass	6	SCT Board

sctboard.in

About the Program

The Computer Vision course introduces students to techniques that help computers work with images and videos. Over six months, learners study image processing, OpenCV programming, object detection and video processing. The course combines core concepts with practical learning so students can understand how computer vision tasks are approached.

Students also complete a computer vision project to apply topics covered in the course. The subjects are arranged to build knowledge step by step, from introductory concepts to working with images, video and detection methods. For details about class schedules, learning mode and assessments, contact an SCT Board authorised study centre.

01
6 Subjects
All important topics of the course together

6 Months Total
Practical lab training along with theory
02

03
12th 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 / 12th pass students
- Computer science learners
- Aspiring software developers
- Technology enthusiasts

Program Highlights

01
Image Processing
Learn how images can be prepared and analysed using computer vision techniques.

02
OpenCV Programming
Explore programming concepts and image operations with OpenCV.

03
Object Detection
Study methods for identifying and locating objects in images.

04
Video Processing
Learn introductory techniques for working with video frames and clips.

05
Practical Learning
Connect course concepts through guided exercises and applied tasks.

06
Course Project
Apply selected computer vision concepts in a project.

Program Curriculum

Computer Vision · 6 Months · 6 Subjects

MODULE 01

Module 1: Introduction to Computer Vision
Subject Code: CV101 | Theory | Marks (Pass/Max): Theory 35/100
- » Computer vision basics
- » Image and video data
- » Common applications

MODULE 02

Module 2: Image Processing
Subject Code: CV102 | Theory | Marks (Pass/Max): Theory 35/100
- » Image representation
- » Colour spaces
- » Filtering and enhancement
- » Thresholding

MODULE 03

Module 3: OpenCV Programming
Subject Code: CV103 | Theory | Marks (Pass/Max): Theory 35/100
- » OpenCV setup
- » Image input and output
- » Drawing and transformations
- » Basic image operations

MODULE 04

Module 4: Object Detection
Subject Code: CV104 | Theory | Marks (Pass/Max): Theory 35/100
- » Detection concepts
- » Features and classification
- » Detection workflows
- » Result visualisation

MODULE 05

Module 5: Video Processing

Subject Code: CV105 | Theory | Marks (Pass/Max): Theory 35/100

- » Video capture
- » Frame extraction
- » Frame-by-frame processing
- » Video output

MODULE 06

Module 6: Computer Vision Project

Subject Code: CV106 | Theory | Marks (Pass/Max): Theory 35/100

- » Problem selection
- » Data preparation
- » Implementation
- » Testing and presentation

Skills & Tools

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

Vision concepts	**Image processing**	**Python basics**	**OpenCV**
Object detection	**Video processing**	**Testing**	**Project work**

Career Opportunities

After the course you can work in these fields.

Computer vision assistant
Supports image and video analysis tasks in technology teams.

Image processing assistant
Helps prepare and process image data in software or research settings.

OpenCV trainee
Assists with basic OpenCV tasks in development teams.

Video analytics assistant
Supports video data handling in media or technology projects.

AI project assistant
Helps with data preparation and testing in AI project teams.

Junior software developer
Works on entry-level software tasks in IT teams, subject to role requirements.

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 listed minimum qualification is 10th Pass. Contact an SCT Board authorised study centre to confirm admission requirements before applying.

How long is the Computer Vision course?
The course duration is six months. Class schedules may vary by study centre, so check the schedule with your chosen centre.

What is the mode of study?
Study mode and class arrangements depend on the authorised study centre. Contact the centre directly for available options and timings.

How is the course exam conducted?
Assessment arrangements and exam details are provided by the authorised study centre. Ask the centre about the applicable assessment format and schedule.

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LET'S TALK

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For admission: sctboard.in/addmission-form