

Vishwakarma University (VU), Pune

Bachelor of Science (Computer Science) (B. Sc. CS)

4 Years – 8 Semesters Full Time Programme

Effective from AY 2024 – 2025

Programme Structure (NEP)

Choice Based Credit System (CBCS) and Grading System

Outcome-Based Education

Semester I

Problem Solving and Programming
Principles of computers and information technology
Computer Network
Basic Computing
English
Digital and Technological Solutions
Capstone Project
Research Methodology

Semester II

Introduction to Python Programming
Database Management System
Web Technologies
Applications of IoT
Environmental Studies
Transformation & Applications of Information Technology
Digital Literacy
Capstone Project

Semester III

Data Modeling and Visualization
Data Structure
PHP and MySQL
Green Computing
Professional Writing
Statistical Methods
Technology Training of society

Semester IV

Object oriented programming using Java
Data Mining and Analytics
Go programming
Java and DMA Lab
Modern Indian Language
Discreate Mathematics
Industry Project

Semester V

Big Data Analytics
Artificial Intelligence
Research Methodology
Internet of Things / Computer Graphics
Web development using Python
Artificial Intelligence Lab & UML diagram

Semester VI

Operating System
Cloud Computing
Machine Learning
IoT Data Aquisition System / Gaming using AR-VR
Minor Track Project

Semester VII

Honor's Degree	Research Degree
Software Project Management & Software Testing	IPR and Innovation Management
Distributed Database	Distributed Database
IoT Data Analytics and Visualization / Web UI-UX Design	IoT Data Analytics and Visualization / Web UI-UX Design
IoT Security / Graphics using Python	IoT Security / Graphics using Python
Major Project	Research Project-1

Semester VIII

Honor's Degree	Research Degree
Android Programming	Entrepreneurship Development
IoT Product Development and Testing / Motion Graphics	IoT Product Development and Testing / Motion Graphics
Major Project	Research Internship
Internship	Research Project-2