

B.Voc. (Bachelor of Vocation) – Computer Science

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Credits: 120–140 (varies by university)

Semester I

Subject Code	Subject Name
BVCS101	Fundamentals of Computer Science
BVCS102	Programming in C
BVCS103	Computer Organization & Architecture
BVCS104	Mathematics for Computing
BVCS105	Communication Skills
BVCS106P	C Programming Lab
BVCS107P	Computer Fundamentals Lab

Semester II

Subject Code	Subject Name
BVCS201	Data Structures
BVCS202	Object-Oriented Programming using C++
BVCS203	Operating Systems
BVCS204	Database Management Systems
BVCS205	Environmental Studies
BVCS206P	Data Structures Lab
BVCS207P	DBMS Lab

Semester III

Subject Code	Subject Name
BVCS301	Java Programming
BVCS302	Computer Networks
BVCS303	Web Technologies

Subject Code	Subject Name
BVCS304	Software Engineering
BVCS305	Employability Skills
BVCS306P	Java Programming Lab
BVCS307P	Web Development Lab

Semester IV

Subject Code	Subject Name
BVCS401	Python Programming
BVCS402	Data Analytics
BVCS403	Mobile Application Development
BVCS404	Cyber Security Fundamentals
BVCS405	Entrepreneurship Development
BVCS406P	Python Programming Lab
BVCS407P	Mobile App Development Lab

Semester V

Subject Code	Subject Name
BVCS501	Cloud Computing
BVCS502	Artificial Intelligence
BVCS503	Internet of Things (IoT)
BVCS504	Machine Learning Basics
BVCS505	Project Management
BVCS506P	AI & ML Lab
BVCS507P	Industrial Training

Semester VI

Subject Code	Subject Name
BVCS601	Big Data Technologies
BVCS602	Information Security
BVCS603	Advanced Web Technologies

Subject Code	Subject Name
BVCS604	Professional Ethics
BVCS605	Major Project
BVCS606P	Internship / Industrial Training
BVCS607V	Viva Voce