

Bachelor of Vocation – Software Development

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Credit Structure: 120–140 Credits (varies by university)

Semester I

Subject Code	Subject Name
BSD101	Fundamentals of Computer Science
BSD102	Programming in C
BSD103	Computer Organization & Architecture
BSD104	Digital Electronics
BSD105	Mathematics for Computing
BSD106	Communication Skills
BSD107P	C Programming Lab
BSD108P	Computer Fundamentals Lab

Semester II

Subject Code	Subject Name
BSD201	Data Structures Using C
BSD202	Object-Oriented Programming Using C++
BSD203	Operating Systems
BSD204	Database Management Systems
BSD205	Environmental Studies
BSD206	Professional Communication
BSD207P	Data Structures Lab
BSD208P	DBMS Lab

Semester III

Subject Code	Subject Name
BSD301	Java Programming

Subject Code	Subject Name
BSD302	Web Technologies
BSD303	Software Engineering
BSD304	Computer Networks
BSD305	Python Programming
BSD306	Aptitude & Soft Skills
BSD307P	Java Programming Lab
BSD308P	Web Development Lab

Semester IV

Subject Code	Subject Name
BSD401	Advanced Java
BSD402	Mobile Application Development
BSD403	Data Analytics Fundamentals
BSD404	Cloud Computing
BSD405	Cyber Security Fundamentals
BSD406	Entrepreneurship Development
BSD407P	Mobile App Development Lab
BSD408P	Cloud Computing Lab

Semester V

Subject Code	Subject Name
BSD501	Full Stack Development
BSD502	Artificial Intelligence Fundamentals
BSD503	Machine Learning Basics
BSD504	Software Testing & Quality Assurance
BSD505	DevOps Fundamentals
BSD506	Internship-I
BSD507P	Full Stack Development Lab
BSD508P	Project Work-I

Semester VI

Subject Code	Subject Name
BSD601	Advanced Software Development
BSD602	Internet of Things (IoT)
BSD603	Data Science Fundamentals
BSD604	Project Management
BSD605	Industry Practices & Ethics
BSD606	Internship-II
BSD607	Major Project
BSD608	Viva Voce