

## Program: B.Voc in Full stack development

### Semester-I (Web Development Fundamentals)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	General Education	I		Programming & Web Fundamentals Programming Logic JavaScript Basics HTML Structure CSS Fundamentals Responsive Design Basics Developer Tools	2	2	4	6
2	General Education	I		Frontend Development Practice Web Page Layouts Forms & Input Handling Responsive Website Design UI Components			24	12
3	General Education	I		Website Development Project Multi-page Website Development Responsive Portfolio Website			24	12
TOTAL								30

### Semester-II (Advanced Frontend Development)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	General Education	II		Advanced JavaScript & Frontend Concepts ES6+ Features DOM Manipulation Event Handling API Integration State Management Basics Version Control (Git & GitHub)	2	2	4	6
2	General Education	II		Frontend Application Development Dynamic UI Components API Based Web Pages Interactive Web Applications			24	12
3	General Education	II		Frontend Project Development Complete Interactive Web Application			24	12
TOTAL								30

### Semester-III (Backend & MERN Stack Development)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	General Education	III		Backend Development & Database Node.js Fundamentals Express.js Framework MongoDB Database REST API Development Authentication (JWT) API Testing Tools	2	2	4	6
2	General Education	III		MERN Stack Application Development React Components State Management API Integration Full Stack Workflow			24	12
3	General Education	III		Full Stack MERN Project Web Application with Authentication & Database			24	12
TOTAL								30

### Semester-IV (Industrial Training: Full Stack Web Development)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	On-The-Job-Training	IV		Live Web Application Development (Client Projects)			4	2
2	On-The-Job-Training	IV		Backend API Development & Database Management			8	4
3	On-The-Job-Training	IV		Collaboration with Developers & Agile Workflow			8	4
4	On-The-Job-Training	IV		Full Stack Project Portfolio Development			40	20
TOTAL								30

### Semester-V (Industrial Training: Mobile Application Development)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	On-The-Job-Training	V		Mobile Application Development (React Native Projects)			4	2
2	On-The-Job-Training	V		Mobile UI Development & Backend Integration			8	4
3	On-The-Job-Training	V		Team-based Mobile Application Development			8	4
4	On-The-Job-Training	V		Mobile App Portfolio & Project Evaluation			40	20
TOTAL								30

### Semester-VI (Industrial Training: Full Stack & Mobile Applications)

S no.	Course Type	Semester	Course Code	Course	L	T	P	C
1	On-The-Job-Training	VI		Advanced Application Development & Deployment			4	2
2	On-The-Job-Training	VI		Cloud Deployment, Testing & Optimization			8	4
3	On-The-Job-Training	VI		Industry Collaboration & Agile Project Development			8	4
4	On-The-Job-Training	VI		Final Capstone Project & Portfolio Evaluation			40	20
TOTAL								30