

PROSPECTUS

BACHELOR OF VOCATION (B. Voc.)

2024 -25

Bachelor of Vocation in Software Development

(BVoc in SD)

(Self-Financed)

Programme Code: CSD

Duration: Three Years (Six Semesters)

Aim of the Programme:

BVoc in Software Development is a unique program with the aim to produce individuals equipped with all the skills that are required for employability in various domains of the IT industry. The program offers a blend of skills education, professional education and general education required for all round development of the individual in the field of software Development. It is a three years Degree program with exit options at the first year with Diploma certificate, second year with advanced Diploma certificate and BVoc degree at the completion of three years.

Total Number of Seats (including reserved seats): 30

Eligibility and Selection Procedure: First Come Basis

Credits required for completing the B.Voc in Software Development programme: 180

| Sr. No. | Nature of Courses | Credits Required |
|----------------|--|-------------------------|
| 1 | Skill Development Courses (18 credits per semester) | 108 |
| 2 | General Courses (12 credits per semester) | 72 |
| | Total Credits Required | 180 |

Course Structure of B.Voc in Software Development - Component A

| NSQF level/ Semester | Course Code | Course Title | Component | Course Credit |
|--|------------------------------------|---|---------------------|---------------|
| Skill Development Qualification Pack - Junior Software Developer(SSC/Q0508) | | | | |
| Level 4 / Semester 1 | General Education Component | | | |
| | SD – G8 | Environmental Studies | Theory | 4 |
| | SD – G9 | Business Communication | Theory | 4 |
| | SD – G10 | Accounting for non accountant | Theory | 4 |
| | Skill Component | | | |
| | CSD-SK3 | Introduction to programming | Theory & Practicals | 6 |
| | CSD-SK7 | Database Management System | Theory & Practicals | 6 |
| | CSD-SK5 | Content Management System | Theory & Practicals | 6 |
| | Total Credits for semester | | | 30 |
| Skill Development Qualification Pack - Web Developer (SSC/Q0503) | | | | |
| Level 5 / Semester II | General Education Component | | | |
| | SD – G6 | Content Writing | Theory | 4 |
| | SD – G1 | Language Paper - I | Theory | 4 |
| | SD – G11 | Entrepreneurship | Theory | 4 |
| | Skill Component | | | |
| | CSD-SK1 | Computer organisation and operating System | Theory & Practicals | 6 |
| | CSD-SK2 | Web Designing | Theory & Practicals | 6 |
| | CSD-SK6 | Multimedia | Theory & Practicals | 6 |
| | Total Credits for semester | | | 30 |
| Skill Development Qualification Pack - Application Developer - Web & Mobile (SSC/Q8403) | | | | |
| Level 6 / Semester III | General Education Component | | | |
| | SD-G20 | Reasoning technique | Theory | 4 |
| | SD-G21 | Mathematical foundation of Computer Science | Theory | 2 |
| | SD-G13 | Personality Development | Theory | 4 |
| | | Internship | OJT | 2 |

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|--|------------------------------------|-----------------------------------|---------------------|-----------|-----------|
| | Skill Component | | | | |
| | CSD-SK7 | Object oriented programming | Theory & Practicals | 6 | |
| | CSD-SK9 | Server Side programming | Theory & Practicals | 6 | |
| | CSD-SK8 | Computer networks | Theory & Practicals | 6 | |
| | Total Credits for semester | | | 30 | |
| Skill Development Qualification Pack - Application Developer - Web & Mobile (SSC/Q8403) | | | | | |
| | General Education Component | | | | |
| Level 6 / Semester IV | SD-G17 | E-Commerce | Theory | 4 | |
| | SD-G22 | Creative Thinking | Theory | 2 | |
| | SD-G23 | Advance Quantitative Technique | Theory | 4 | |
| | | Internship | OJT | 2 | |
| | Skill Component | | | | |
| | CSD-SK10 | Web Development Framework | Theory & Practicals | 6 | |
| | CSD-SK11 | Software Engineering | Theory & Practicals | 6 | |
| | CSD-SK12 | Mobile Application Development | Theory & Practicals | 6 | |
| | | Total Credits for semester | | | 30 |
| Skill Development Qualification Pack - Application Architect - Web & Mobile (SSC/Q8402) | | | | | |
| | General Education Component | | | | |
| Level 7 / Semester V | SD-G14 | Digital Marketing | Theory | 4 | |
| | SD-G15 | Organisational Behaviour | Theory | 4 | |
| | SD-G16 | Maths for Competitive Exams | Theory | 4 | |
| | Skill Component | | | | |
| | CSD-SK14 | Software Testing | Theory & Practicals | 6 | |
| | CSD-SK13 | Data Structures | Theory & Practicals | 6 | |
| | CSD-SK17 | Project | | 6 | |
| | | Total Credits for semester | | | 30 |

| Skill Development Qualification Pack - Application Architect - Web & Mobile (SSC/Q8402) | | | | |
|--|------------------------------------|--|---------------------|-----------|
| Level 7 / Semester VI | General Education Component | | | |
| | SD-G19 | Human Computer Interface | Theory | 4 |
| | SD-G18 | Independent Studies | Theory | 4 |
| | SD-G24 | Security in Web and Mobile Application | Theory | 4 |
| | Skill Component | | | |
| | CSD-SK15 | Network Security | Theory & Practicals | 6 |
| | CSD-SK16 | Cloud Computing | Theory & Practicals | 6 |
| | CSD-SK17 | Project | | 6 |
| | Total Credits for semester | | | 30 |

*Course Structure **Subject to Change** upon approval

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