

# Schemes and Syllabus

(For academic session 2025-26 onwards)

## **B. Voc. in Computer Application**



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# SECTION 1

## Program Outcomes and Program Specific Outcomes

**PO1:-** Understand, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer based system.

**PO2:-** Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.

**PO3:-** Apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success

**PO4:-** Work effectively with a range of current, standard, Office Productivity software applications.

**PO5:-** Evaluate, select and use office productivity software appropriate to a given situation.

**PO6:-** Apply basic adult learning and assessment principles in the design, development, and presentation of material produced by office productivity applications.

**PO7:-** Apply basic adult learning and assessment principles in the design, development, and presentation of material produced by office productivity applications.

**PO8:-** Apply basic adult learning and assessment principles in the design, development, and presentation of material produced by office productivity applications.

**PO9:-** Demonstrate employability skills and a commitment to professionalism.

## **Program Specific Outcomes**

### **PSO 1: Software Development Proficiency**

Graduates will be able to apply programming concepts and software engineering practices to design, develop, test, and maintain reliable and efficient software systems.

### **PSO 2: Computing and Analytical Skills**

Graduates will demonstrate proficiency in using computational techniques, algorithms, data structures, and mathematical foundations to solve real-world problems effectively.

### **PSO 3: Web and Mobile Application Development**

Graduates will be equipped with the skills to develop responsive web and mobile applications using modern tools and frameworks, meeting industry standards and user requirements.

### **PSO 4: Database and Information Management**

Graduates will be able to design, implement, and manage databases, ensuring data integrity, security, and efficiency in handling large-scale data systems.

### **PSO 5: Emerging Technologies and IT Infrastructure**

Graduates will be familiar with emerging areas such as cloud computing, cyber security, artificial intelligence, and IoT, and understand their integration into business and IT infrastructure.

### **PSO 6: Professional Ethics and Communication**

Graduates will demonstrate effective communication, teamwork, and ethical responsibility in professional computing environments, contributing positively to society and organizations.

## SECTION 2

### Semester wise Scheme

#### First Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -101	Basics of Computer	4	-	-	4	4	40	60	100
B. Voc. CA -102	It Foundation and Programming	4	-	-	4	4	40	60	100
B. Voc. CA -103	Advance Programming	4	-	-	4	4	40	60	100
B. Voc. CA-104	OJT-I (On Job Training NSQF Level-4)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

#### Second Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -201	Professional Communication	4	-	-	4	4	40	60	100
B. Voc. CA -202	Operating System	4	-	-	4	4	40	60	100
B. Voc. CA -203	Data Structure	4	-	-	4	4	40	60	100
B. Voc. CA-204	OJT-II (On Job Training NSQF Level-5)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

### Third Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -301	Environment Studies	4	-	-	4	4	40	60	100
B. Voc. CA -302	Web Designing	4	-	-	4	4	40	60	100
B. Voc. CA -303	Data Mining	4	-	-	4	4	40	60	100
B. Voc. CA-304	OJT-III (On Job Training NSQF Level-6)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

### Fourth Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -401	Human Values & Ethics	4	-	-	4	4	40	60	100
B. Voc. CA -402	Oops with Java	4	-	-	4	4	40	60	100
B. Voc. CA -403	Multimedia tools and Applications	4	-	-	4	4	40	60	100
B. Voc. CA-404	OJT-IV (On Job Training NSQF Level-6)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

### Fifth Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -501	Disaster Management	4	-	-	4	4	40	60	100
B. Voc. CA -502	Network Configuration	4	-	-	4	4	40	60	100
B. Voc. CA -503	Android Programming	4	-	-	4	4	40	60	100
B. Voc. CA - 504	OJT-V (On Job Training NSQF Level-7)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

### Sixth Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
B. Voc. CA -601	Current Affairs	4	-	-	4	4	40	60	100
B. Voc. CA -602	Android Programming -II	4	-	-	4	4	40	60	100
B. Voc. CA -603	Digital Logic and Processor	4	-	-	4	4	40	60	100
B. Voc. CA-604	OJT-VI (On Job Training NSQF Level-7)	-	-	36	36	18	300	200	500
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>36</b>	<b>48</b>	<b>30</b>	<b>480</b>	<b>320</b>	<b>800</b>

**Assessment Criteria (100 Marks per Subject)**  
**(For General Components)**

<b>S. No.</b>	<b>Components</b>	<b>Maximum Marks</b>
1	Assignment-1	20
2	Assignment-2	20
3	ESE	60

**Assessment Criteria (500 Marks) (For OJT)**  
**For Skill Component**

<b>S. No.</b>	<b>Components</b>	<b>Maximum Marks</b>
1	Attendance	50
2	General Behaviour & Discipline	50
3	Technical Skill	200
4	Presentation Skill	200