BCA (3yrs)/ BCA Hons. (4yrs)*

PROGRAMME CODE: CS4A **PROGRAMME TITLE:** Bachelor of Computer Application

OBJECTIVES:

BCA course is a full time three years (six semesters) Bachelor's degree in Computer Application that aims to develop skills to analyze, design and implement computerized solutions. The programme provides key concepts in computer fundamentals, applications, software design and development, web design and cloud computing. The course aims to develop technical skills through exposure to programming, data structure, database management system and web development. The focus is on improving critical thinking, communication skills, managerial skills, entrepreneurial skills and ethical values. However, the foundation of communication skill is based on strong oral and written communication through modern equipped English Language Lab.

* After three years of bachelor degree, BCA students can continue their post graduation and get MCA (Integrated) degree. If the student wants to pursue higher studies abroad, he/she can obtain BCA (Hons) 4 years degree after successful completion of eight semesters.

ELIGIBILITY:

Higher Secondary (10+2) with 50% marks and Mathematics as a subject.

AGE LIMIT: As per the directives of Government of Madhya Pradesh, there is no upper age limit for admission to various programmes.

ADMISSION PROCEDURE:

The admissions will be done as per merit in the entrance test conducted by the university.

SEATS: 90 (reservation as per state Govt. rules).

DURATION: BCA Six Semesters (Three Years)/ BCA Hons. Eight Semesters (Four Years).

Semester	Academic Fee	Development & Maintenance	Students' Services Fee		Examinat ion Fee	Total (Rs.)	
		Fee	Boys	Girls		Boys	Girls
First	10500	6500	3300	3111	2500	22800	22611
Second	10500	6500	2911	2722	2500	22411	22222
Third	10500	6500	3300	3111	2500	22800	22611
Fourth	10500	6500	2911	2722	2500	22411	22222

FEE STRUCTURE (2020-24):

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Fifth	10500	6500	3300	3111	2500	22800	22611
Sixth	10500	6500	2911	2722	2500	22411	22222
Seventh	10500	6500	3300	3111	2500	22800	22611
Eighth	10500	6500	2911	2722	2500	22411	22222

- Caution money (Refundable) of Rs. 4000/- will be charged additionally in the first semester.
- Alumni Fee of Rs. 500/- will be charged extra in the first semester.
- If a student repeats a paper(s) in a semester, an additional fee of Rs.500/- per paper shall be payable.
- For NRI/ FN/ PIO Candidates, a fee of US\$ 3500 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$ 500 once at the time of admission.
- Hostel Fee and Central Library Fee will be extra.

PROGRAMME STRUCTURE (2020-23):

First Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
CS4A-101	Mathematics – I	4(3-1-0)		
CS4A-103	Physics – I	4(3-1-0)		
CS4A-105	Hindi Language	4(3-1-0)		
CS4A-107	Programming and Problem Solving through C - I	6(3-1-4)		
CS4A-109	Basic Electricals & Electronics	5(3-1-2)		
CS4A-111	English Language Lab	1(0-0-2)		
CS4A-151	Comprehensive Viva	4		
ELECTIVE GENERIC: The students can choose any other UG level generic course being				

run in this university campus.

Second Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
CS4A-102	English Language and Composition	4(3-1-0)		
CS4A-104	Programming and Problem Solving Using C- II	5(3-1-2)		
CS4A-106	Mathematics- II	4(3-1-0)		
CS4A-108	Electronic Circuits	5(3-1-2)		
CS4A-110	Operating System Basics & PC Packages	4(3-1-0)		
CS4A-152	Comprehensive Viva	4		
ELECTIVE GENERIC: The students can choose any other UG level generic course being				
run in this university campus.				

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Third Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
CS4A-201	Mathematics-III	4(3-1-0)		
CS4A-203	Object Oriented Programming through C++ - I	5(3-1-2)		
CS4A-205	Digital Electronics	5(3-1-2)		
CS4A-207	Data Structure and Algorithms	5(3-1-2)		
CS4A-209	Financial Accounting	4(3-1-0)		
CS4A-251	Comprehensive Viva	4		
ELECTIVE GENERIC: The students can choose any other UG level generic course being				
run in this university campus.				

Fourth Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
CS4A-202	Microprocessor and Assembly Language programming	5(3-1-2)		
CS4A-204	Database Programming using VB	4(2-0-4)		
CS4A-206	JAVA Programming	5(3-1-2)		
CS4A-208	Statistics & Probability	4(3-1-0)		
CS4A-210	English Language Lab2	1(0-0-2)		
CS4A-212	Environmental Awareness	4(3-1-0)		
CS4A-214	Mini Project	2(0-0-4)		
CS4A-252	Comprehensive Viva	4		
ELECTIVE GENERIC: The students can choose any other UG level generic course being				
run in this university campus.				

Fifth Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
CS4A-301	System Analysis & Design	4(2-1-2)		
CS4A-303	Data and Computer Communication	5(3-1-2)		
CS4A-305	Introduction to DBMS(SQL& PLSQL)	5(3-1-2)		
CS4A-307	Computer Organization and Hardware Maintenance	5(3-1-2)		
CS4A-309	Principles and Practice of Management	4(3-1-0)		
CS4A-311	Project(using database and web skills)	2(0-0-4)		
CS4A-351	Comprehensive Viva	4		
ELECTIVE GENERIC: The students can choose any other UG level generic course being				
run in this university campus.				

Sixth Semester:

Code	Title	Credits (L T P)
CORE CO	URSES	
CS4A-302	Fundamentals of Operating Systems	5(3-1-2)
CS4A-304	Introduction to Cloud Computing	5(3-1-2)
CS4A-306	Web Technology and Programming	5(3-1-2)
CS4A-308	Entrepreneurship	4(3-1-0)

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CS4A-310	Project	4	
CS4A-352	Comprehensive Viva	4	
ELECTIVE GENERIC: The students can choose any other UG level generic course being			
run in this university campus.			

NOTE: BCA Seventh and Eighth semester core courses will be offered according to the courses of MCA-I and MCA-II Semester respectively. The above programme structure can be modified as per requirement from time to time in accordance with University Ordinance No. 14.

PROGRAMME OUTCOMES:

SCSIT has designed BCA programme to prepare students to attain following abilities:

- To understand the core concepts of Computer Science.
- Apply the knowledge and skills in the application of computer programming for software development.
- Understand the professional and ethical issues related with the IT profession.
- To enhance practical skills to develop software for industry, society and business.

PROGRAMME SPECIFIC OUTCOMES:

At the end of this programme, BCA student will be able to:

- Apply knowledge of computing and science to solve real world problems.
- To use current tools and techniques required for computing practice.
- To design, develop and maintain small scale software and web projects.
- Apply computing techniques to interpret the data and design and conduct the experiments.
- To prepare students to pursue best post graduate education in the fields of Computer Science.
- To involve in professional development.