

**C P PATEL AND F H SHAH COMMERCE (AUTONOMOUS) COLLEGE, ANAND**

**(Managed by SARDAR PATEL EDUCATION TRUST, ANAND)**

**AFFILIATED TO SARDAR PATEL UNIVERSITY, V V NAGAR**

An ISO 9001 2015 Certified / An ISO 14001-2015 Certified / An ISO 21001-2018 Certified

GUJARAT INSTITUTIONAL RATING FRAMEWORK (4 STAR)

AAA Reaccredited CGPA 3.56 – GRADE **A<sup>+</sup>** KCG-Dept of Edu. Govt of Gujarat-April 2017

NAAC Reaccredited - CGPA 3.30 - GRADE **'A<sup>+</sup>'** UGC – MHRD, Govt of India – June 2022

Syllabus as per NEP 2020 with effect from the Academic Year 2024-2025

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## **Bachelor of Computer Applications (BCA)**

### **PROGRAMME OUTCOME**

At the end of the BCA programme the students will be able to:

- Understand the fundamental concepts of computers, software hardware and peripheral devices and evolution of computer technologies.
- Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- 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.

### **PROGRAM SPECIFIC OUTCOMES**

- Equip themselves to potentially rich & employable field of computer applications.
- Pursue higher studies in the area of Computer Science/Applications.
- Take up self-employment in Indian & global software market.
- Meet the requirements of the Industrial standards.

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**With Effective from June 2024****Course Structure under NEP – 2020(BCA) Semester-IV**

Subject	Subject Code	Subject Title	Theory/ Practical	Credits	WCH	Exam Duration	Marking Scheme			
							Int	Ext	Total	
Discipline Specific Course Core (Major)	Core Course-1	US4MABCA01	Data Structure	T	4	4	2	50/18	50/18	100/36
	Core Course-2	US4MABCA02	Object Oriented Programming - II	T	4	4	2	50/18	50/18	100/36
	Practical of Core Course-1 and Core Course-2	US4MABCA03	Practical Based on Data Structure and Object Oriented Programming - II	P	4	4	2	50/18	50/18	100/36
Minor	Minor Course-1	US4MIBCA04	Web Page Designing with Bootstrap	T	2	2	1	25/09	25/09	50/18
	Practical of Minor Course-1	US4MIBCA05	Practical Based on Web Page Designing with Bootstrap	P	2	4	1	25/09	25/09	50/18
Ability Enhancement Course	Ability Enhancement Course-1	US4AEBCA06	System Analysis and Design	T	2	2	1	25/09	25/09	50/18
Skill Enhancement Course	Skill Enhancement Course-1	US4SEBCA07	Cyber Security	T	2	2	1	25/09	25/09	50/18
IKS/Value Added Course (Any One)		US4VABCA08	E-Commerce	T	2	2	1	25/09	25/09	50/18
		US4VABCA09	NCC II	T						
		US4VABCA10	NSS II	T						
<b>Minimum Qualifying Credits</b>				<b>22</b>						