

# ***INSTITUTIONAL DEVELOPMENT PLAN (IDP)***

## ***SHREE UTTAR GUJARAT BCA COLLEGE, SURAT***

**Planning Horizon: 2025–2035**

### **1.2 Institutional SWOC Analysis**

#### **Strengths**

- BCA programme offered since **2009**.
- Dedicated faculty in programming, databases, and networking.
- Strong demand for IT and computer graduates.
- Affordable, inclusive education.

#### **Weaknesses**

- Limited advanced computing labs.
- Low research output in emerging technologies.
- Need for stronger IT industry integration.

#### **Opportunities**

- NEP 2020: **4-year BCA with Research**.
- Growth in AI, data science, cyber security, cloud computing.
- Startups and software service demand.

#### **Challenges**

- Rapid technology obsolescence.
- Skill gap between curriculum and industry tools.
- Faculty up skilling requirements.

## **2. Institutional Development Plan (Next 10 Years)**

### **2.1 Vision**

To emerge as a centre of excellence in undergraduate computer education, innovation, and applied research

### **2.2 Mission**

- Provide strong foundations in computing and programming.
- Promote innovation, research, and problem-solving skills.
- Align curriculum with industry and emerging technologies.

### **2.3 Goals and Objectives**

#### **Short-Term Goals (Year I–II)**

- Upgrade labs and programming infrastructure.
- Introduce certifications (Python, Web Development).

#### **Strategic Plan**

- FDPs in new technologies.
- Coding clubs and hackathons.
- LMS-based learning.

#### **Medium-Term Goals (Year III–V)**

- Strengthen industry-linked training and research.
- Establish Centre for Emerging Technologies.

## **Strategic Plan**

- MoUs with IT firms and startups.
- Student internships and live projects.
- National coding events.

## **Long-Term Goals (Year VI–X)**

- Launch **4-year BCA with Research**.
- Develop incubation and innovation ecosystem.

## **Strategic Planning**

- AI, data science, cyber security labs.
- Funded research and consultancy.

## **2.4 Executive Summary**

The BCA IDP emphasizes **technology-driven learning, research orientation, and employability**, preparing students for evolving IT and digital economies.

## **2.5 Developing Motivated and Energized Faculty**

- Continuous up skilling in emerging technologies.
- Research incentives and certifications.
- Collaboration with IT experts.

## **2.6 Teaching, Learning and Education Technology**

- Project-based and problem-based learning.
- Virtual labs and coding platforms.
- Continuous skill assessment.

## **2.7 Research Development and Innovation (BCA Focus)**

## **ii) Improving Quantity & Quality of Publications**

<b>Phase</b>	<b>Action</b>
Year I–II	Research & coding workshops
Year III–V	Incentives for indexed journals
Year VI–X	Patents, software tools, funded projects

## **iii) Training Faculty/Students for Research**

- Short: Coding research & mini projects
- Mid: AI, ML, data analytics research
- Long: Product development and patents

## **iv) Preparing Faculties for 4th Year Research**

- Training in supervision, ethics, and NEP.

## **v) Research-Conducive Environment**

- Advanced computing labs, repositories, software tools.

## **2.8 Industry–Academic Partnership**

- IT advisory board.
- Industry certifications and mentoring.
- Joint software development projects.

## **2.9 Placement Plan (BCA)**

- Technical aptitude and coding training.
- Internship-to-placement pipeline.
- Startup and freelancing guidance.

## **2.10 Accreditation Target**

- IQAC strengthening and data systems.
- Target: **NAAC accreditation with IT-focused best practices.**

## **2.12 Alumni Engagement**

- Alumni tech talks and mentoring.
- Internship and placement support.

## **2.13 Infrastructure Development**

- High-end computer labs and servers.
- Innovation and incubation spaces.

## **2.14 Skill Development of Non-Teaching Staff**

- IT systems, lab management, digital services.

## **2.15 Other Initiatives**

- Coding clubs, hackathons and open-source contributions.
- Cyber awareness and digital ethics programmes.