

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

| Phase | Action |
|------------|--|
| 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.