



# B.TECH.(CS & IT)

in Collaboration with



## KEY FEATURES

**1800+**

Hours of Class Learning

**100+**

Hours of Communication Skills & Personality Development

**850+**

Hours of Industry Experience

**900+**

Hours of Practical Learning

**5**

MOOC & Industry Certifications

# » OUR CAMPUS



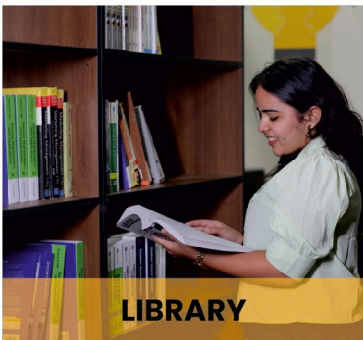
**CLASSROOM**



**AUDITORIUM**



**COMPUTER LAB**



**LIBRARY**



**CAFETERIA**



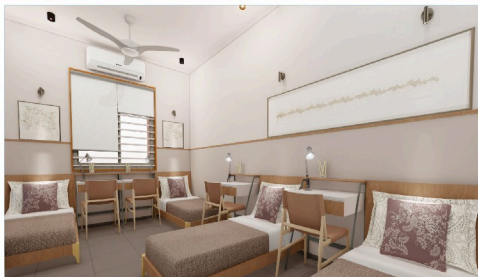
**FOOTBALL**



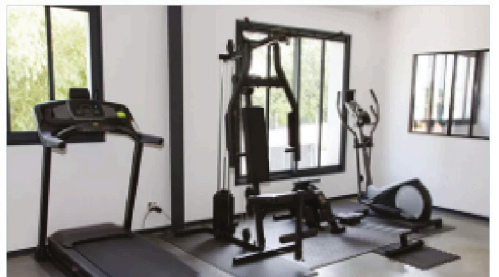
**CRICKET**



**HOSTEL**



**HOSTEL ROOM**

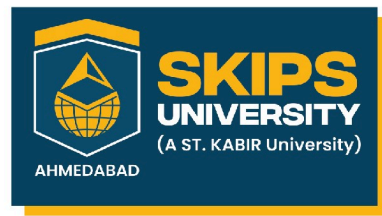


**GYM**

## » B.TECH. (CS & IT) WITH (KNOWLEDGE PARTNER)



ONE OF THE TOP 5 - GLOBAL  
TECH COMPANY



A LEADING  
UNIVERSITY IN GUJARAT

### ABOUT B.TECH.(CS & IT) PROGRAMME

B.Tech. in Computer Science & Information Technology stands apart through its strategic collaboration with IBM – a globally recognized technology leader and one of the world’s most respected brands. This partnership reflects our commitment to delivering not just a degree, but a transformative learning experience aligned with global industry standards. When students learn under a curriculum enriched and co-designed with IBM, they gain exposure to globally benchmarked practices and contemporary industry insights. By choosing our B.Tech. program, students gain the advantage of learning within an ecosystem supported by IBM – opening doors to stronger career prospects, enhanced employability, and global opportunities.

#### » ADVANTAGES OF IBM COLLABORATION

- › IBM Curated Curriculum
- › Access to on-campus IBM Lab and Software
- › IBM Master Certification
- › Hands-on with IBM use cases
- › Experiential learning with IBM Trainers
- › Webinars, IBM Campuses Visit, IBM Day

#### » MASTER TECH TOOLS



#### » SKILLS YOU WILL DEVELOP

- › Programming Skills
- › Algorithmic Skills
- › Communication Skills
- › Critical Thinking Skills
- › Problem-solving Skills
- › Decision-making Skills
- › System Analysis Skills
- › Logical Reasoning Skills

# » COURSE STRUCTURE

## SEMESTER-I

- › Induction Program
- › Introduction to Programming using C
- › Mathematics-I
- › Digital Electronics
- › Physics
- › Communication Skills - I
- › Indian Knowledge System

## SEMESTER-II

- › Data Structures
- › Mathematics-II
- › Basic Electrical and Electronics Engineering
- › Engineering Graphics & Design
- › Foundations of AI
- › Universal Human Values
- › Environmental Science & Green Computing

## SEMESTER-III

- › Object Oriented Programming (Java/C++)
- › Mathematics-III
- › Computer Organization and Architecture
- › Analog Electronics Circuits
- › Python Programming for Data Science with **IBM**
- › Humanities - I
- › Digital Fabrication Workshop
- › Certification-I

## SEMESTER-IV

- › Computer Networks
- › Database Management Systems
- › Software Engineering
- › Discrete Mathematics
- › Elective I (Introduction to Cyber Security/ Web Design/ Data Science Fundamentals)
- › Data Visualisation with R, Watson with **IBM**
- › Design Thinking
- › Yoga

## SEMESTER-V

- › Operating Systems
- › Machine Learning Fundamentals with **IBM**
- › Design and Analysis of Algorithms
- › Organization Behaviour/Finance & Accounting
- › Big Data Analytics
- › Sustainable Engineering
- › Certification-II

## SEMESTER-VI

- › Microprocessors and Interfacing
- › Wireless Communication
- › Software Testing and Quality Assurance
- › Deep Learning with **IBM**
- › Predictive Modelling with **IBM**
- › Technical Elective I (Open Source Technologies/ High-Performance Computing/ Parallel Programming)
- › Project -I
- › Summer Internship (Mandatory by AICTE)

## SEMESTER-VII

- › Compiler Design
- › Mobile Application Development
- › Theory of Computation
- › Humanities - II
- › Elective II (Natural Language Processing/ Computer Vision/ Bioinformatics)
- › Technical Elective II (Data Warehousing and Mining/ Speech Processing/ Computer Forensics)
- › Generative AI with Prompt Engineering with **IBM**
- › Artificial Intelligence Advanced Programming with **IBM**
- › Project-II
- › Certification-III

## SEMESTER-VIII

- › Industry Internship / Major Project with **IBM**

# » COURSE PEDAGOGY



**Seminar**



**Role-Plays**



**Case Study Method**



**Workshops**



**Simulated Exercise**



**Internships**



**Group Projects**



**Movie Club**



**Group Discussions**



**Live Projects**



**Flipped Classrooms**



**Colloquium**

# » EMPLOYABILITY ENHANCEMENT PROGRAM



**PSYCHOMETRIC TEST**



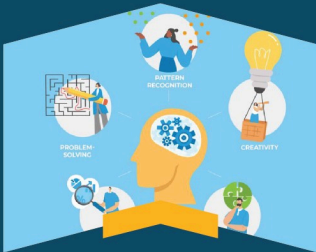
**SWOT ANALYSIS**



**GOAL SETTING**



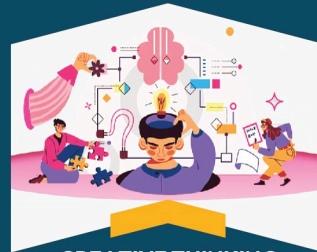
**SOFT SKILLS**



**ANALYTICAL SKILLS**



**TECHNICAL SKILLS**



**CREATIVE THINKING**



**NETWORKING**



**RESUME BUILDING**



**APTITUDE**



**GROUP DISCUSSION**



**PERSONAL INTERVIEW**

# » CLUBS

## CO CURRICULAR CLUBS



ALPHA CLUB



YOUNG DEVELOPERS CLUB



IIF CLUB



SCOPE CLUB



COMMUNICATION CRUSADERS



BRAIN STORMERS CLUB

## EXTRA CURRICULAR CLUBS



ABHIVYAKTI CLUB



SOCIAL SENSITIZERS CLUB



MEDIA CLUB



UTSAV CLUB



RUNBHOOMI CLUB



PUBLIC RELATIONS CLUB



VIRASAT CLUB

# » LIFE AT SKIPS UNIVERSITY



# INDUSTRY RECOGNIZED ADD-ON CERTIFICATION PROGRAMME

Add-on certification bridges the gap between practical and theoretical skills, boosting the application of IT concepts. At SKIPS University, young IT professionals are encouraged to pursue various add-on certifications that align with their interests.



Student opting for certifications shall have to pay the applicable certifications fee.

## » CAREER PROSPECTS

Software Developer

Systems Analyst

Embedded Systems Engineer

Cybersecurity Analyst

Business Analyst

Technology Consultant

Network Engineer

Cloud Solutions Architect

Data Analyst

AI / Machine Learning Engineer

Full Stack Developer

Quality Assurance Engineer

Product Manager

Computer Hardware Engineer

## 750+ CORPORATE STAKEHOLDERS

I.T.	E-COMMERCE	MANUFACTURING	BANKING	PHARMA



**SKIPS**  
**UNIVERSITY**  
(A ST. KABIR University)

AHMEDABAD

**Admission Office:**

SKIPS School of Business, Nr. SAL Hospital,  
Off Drive-in Road, Thaltej,  
Ahmedabad – 380054

**University Campus:**

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