



CONTACT DETAILS

Faculty of Computer Applications & Information Technology
BCA Programme
(Formerly known as GLS Institute of Computer Applications – NAAC Accredited)



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www.glsufcait.org, www.glsuniversity.ac.in/bca.html
<http://www.glsuniversity.ac.in/bca-institutions.html>



Faculty of Computer Applications & Information Technology

Pioneer in Computer Science Education

(NAAC Accredited)

BACHELOR OF COMPUTER APPLICATIONS

(B.C.A.)

SIX-SEMESTERS DEGREE COURSE



GLS UNIVERSITY

GLS University is a statutory state private university established by an Act of Gujarat State Assembly. GLS University is set up with the vision to benchmark global standards of education and create path breaking programmes in the areas of strategic importance not only to the country but also across the world. The university has initiated various innovative programmes in diverse areas of Management, Information Technology, Communications, Social Sciences, Commerce. Besides the existing programmes of B.C.A., M.C.A, MSc(IT), B.B.A., M.B.A., B.Com., M.Com etc. offered by the various institutes under the umbrella of GLS university, the university is geared up to introduce pioneering undergraduate and post graduate programmes in the various disciplines. With a view to provide impetus to research, the university intends to have research focus in its undergraduate and post graduate programmes. Moreover, exclusive research degrees like M.Phil. and Ph. D. have also been introduced in various disciplines.

GLS University, with its rich legacy of Gujarat Law Society, is now poised to become Gujarat's first globally relevant university, delivering quality education at affordable costs.



FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY (FCAIT)

FCAIT offers various technology oriented undergraduate and postgraduate courses with a fusion of technology, innovation and creativity. The institute strive to provide concrete education in the fundamental and advanced concepts of technology and computer science. The institute provides conducive environment for students with different aptitudes and different educational experiences to benefit intellectually, academically and vocationally.

The institute aims at integrating various cutting-edge Open Source technologies that provide a wide scope for students to learn, engage & transform. The institute prepares graduates who are able to demonstrate intelligence, ingenuity and innovation in all areas of endeavors. The institute strives to impart quality education through Student Engagement approaches such as effectual faculty-student interaction, engaging institute-industry interface, balanced mix of conceptual learning and practical demonstration, continuous evaluation, project based learning and many more.



SALIENT FEATURES OF FCAIT

1

Educational
Authenticity
and Operational
Credibility of
Two Decades

2

Exemplary
Pedagogical
Approaches
through ICT Tools
and Techniques

3

NAAC
Accredited
Institute

4

Highly
Experienced and
Trained
Faculty Team

5

Intricate
Infrastructural
Resources

6

Library
adorning rich
collection of Books,
E-resources,
Journals,
Periodicals

THE COURSE OF BCA

Bachelor of Computer Applications (BCA) Course is a three years (six semesters) Under Graduate Programme based on Choice Based Credit System (CBCS). The programme is intellectually designed academic programme to impart holistic education to broaden the technical, cultural and ethical dimensions of the students. BCA is customized for individuals wishing to excel in the field of Computer Science and Applications. This programme enables the students to stay updated about the latest advancements in the field of computer science and applications. BCA Programme is structured to equip students to gain proficiency in various computer programming languages, develop problem solving aptitude and excel to solve practical problems arising from the industry – technology interface.

The Programme offers syllabus fabricated to include latest advancements in technology and equips aspirants with the required skills and knowledge to enter into the industry and carve a niche. The curriculum exhibits intrinsic blend of contemporary subjects as Design Thinking, Python Programming, Introduction to Angular, Emerging Technologies, Embedded Systems, Drupal, Information Security as well as traditional subjects like Android / iOS development, Website Frameworks, Cloud Computing, Digital Marketing, Publishing tools and others.



FUTURE OPPORTUNITIES OF BCA

Rapidly progressing information & communication technologies have become crucial components in the strategic planning of every company. This has uncovered multiple career dimensions for professionals with technical expertise and insight of computer programming.

After the successful completion of BCA, students will be availed with multiple options and opportunities to shape their careers in different roles like business analyst, data analyst, software programmer, network and/or system administrator, database administrator, web designer, web/multimedia programmer, trainer, computer scientist, information officer, information systems manager and others.



PROUD MOMENTS FOR FCAIT !!!

Ranked **17th**
in All India Survey of Top BCA
Colleges by India Today 2018

Ranked **1st**
for Academic Excellence
in Gujarat

ENRICHING TALENTS

01

Excellent
Placement
Support
and Guidance

02

Emphasis on
Proactive
Learning

03

Hands-on
Practical Sessions
for grounding
the Computer
Science
Fundamentals

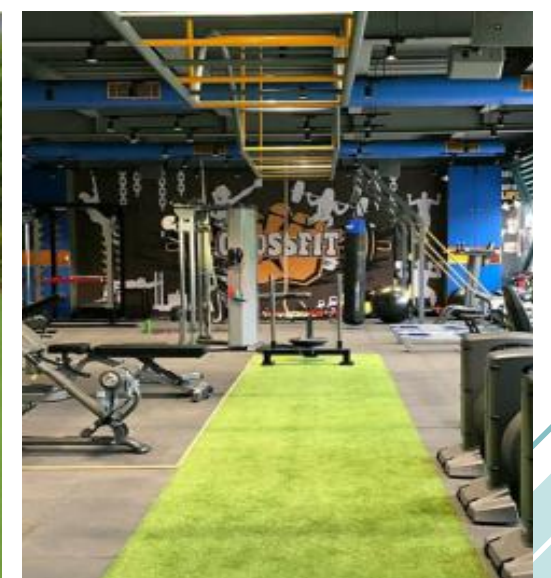
04

Expert Guest
Lectures,
Seminars,
Workshops for
Aptitude
Development

05

Acquaintance to
the Interdisciplinary
Challenges through
Industrial Tours

INFRASTRUCTURAL RESOURCES



HOLISTIC DEVELOPMENT

Tech Talks



Motivating and futuristic technology oriented tech talks on emerging and trending technologies

Expert Lecture Series



Experts delivering most updated knowledge and insights on the emerging technologies and advancements

Industrial Visits



Educating students on the know-how of various industry processes and exploring different dimensions of technology

Educational Tours



Outings to Explore, enhance & expand horizons beyond text books.

Seminars & Workshops



Hands-on experience for students on different technologies from eminent personalities of industry

Youth Festivals & Shadhez



Platforms to showcase multifaceted talents of students

ISR



Awareness about Social Assets & Responsibility

Sports



Motivation for an all-round development of students

Skype Lectures



Face to face with the eminent individual around the world

DKOSMOS



Magazine to vitrine students' writing skills

ALUMNI MEETS



Opportunity for students to interact with Alumni of the institute

ALUMNI SPEAKS

I distinctly recall my first day at GLS. It was an obvious choice because of its location and class schedule, allowing my career with my under graduate program. The diverse course offering allowed me to focus my education on areas that were useful and interesting. The professors really focus on real-world case scenarios and getting you ready for certifications, that turned out as an excellent journey of my career. On top of an outstanding education, GLS fostered innovation outside of the classroom, providing me with the resources and flexibility to experiment with new ideas.

Jay Soni (Network Administrator, IT Tec Solutions, Batch 2007-10)

The new and better strides in my career owes gratitude to GLS. Studying here laid in me strong foundations of technological concepts and logical thinking capabilities that have helped me in my professional life. The guidance and counselling from faculties helped to get clarity about what to choose and why. It's a matter of pride and honour to be an alumni of an institute with great legacy and strong educational insight.

Nidhi Mehta (Principal QA, Calsoftinc, Batch 2008-11)

THE CURRICULUM

BCA Course runs on Choice Based Credit System (CBCS). It is an instructional package developed to suit the needs of students to keep pace with the developments in higher education and the quality assurance expected of it in the light of liberalization and globalization.

Core Courses (CCs) - subjects related to the programme

Core Elective Courses (CECs) - subjects offered for specialization related to the programme

Elective Courses (ECs) - subjects offering students the chance to explore a topic more deeply

Foundation Courses (FCs) - subjects focusing on developing analytical and communicative skills



COURSE STRUCTURE

SEMESTER I

Core Courses

- Computer Fundamentals & Information Technology
- Logic Development & Programming
- Introduction to HTML5
- Basics of Mathematics
- Practical on LDP
- Practical on HTML5
- OSOS & Publishing Tools

Foundation Course
Elective Course

SEMESTER II

Core Courses

- Introduction to Object Oriented Programming
- Dynamic HTML
- Database Management System-I
- Computer Organization & Advanced Microprocessors
- Practical on IOOP
- Practical on DHTML
- Multimedia Tools

Foundation Course
Elective Course

SEMESTER III

Core Courses

- Advanced Object Oriented Programming
- Data Structures
- Database Management System-II
- Fundamentals of Operating System
- Practical on AOOP
- Practical on DS
- Practical on DBMS-II

Foundation Course
Elective Course

SEMESTER IV

Core Courses

- Core Java
- Introduction to XML
- Structured & Object Oriented Analysis & Design
- Data Communication & Networks
- Practical on Core Java
- Practical on XML
- Linux Shell Scripting (Practical)

Foundation Course
Elective Course

SEMESTER V

Core Courses

- Website Development using PHP & MySQL
- Advanced Java
- Practical on PHP
- Practical on Advanced Java
- Software Development Project - I

Core Elective Course
• Software Project Management
• Introduction to Cloud Computing
Foundation Course

SEMESTER VI

Core Courses

- Introduction to Python
- Information Security
- Practical on Python
- Software Development Project - II
- Core Course (Any one)
• Mobile Application Development Using Android
- Mobile Application Development Using IOS
- Core Elective Course (Any one)
• Website Frameworks - I (Joomla)
- Website Frameworks - II (RUBY on Rails)
- Introduction to Drupal

Foundation Course

Foundation Courses

- Communication Skills
- Fundamentals of Accounting
- Professional Communication in English
- Discrete Mathematics
- Statistics for Data Analysis
- Introduction to Angular
- E-Governance
- Introduction to Embedded Systems
- E-Commerce
- Operation Research
- Introduction to Web Services
- Enterprise Resource Planning
- Management Information System
- Emerging Technologies

Elective Courses

- Learning from World Leaders
- Culture & Civilization
- Health Education
- Gandhian Movement
- Environmental Studies
- Principles Of Management
- Soft Skills Development
- Introduction to Indian Constitution
- Green Computing
- Digital Marketing
- History of Gujarat & its Culture
- Disaster Management
- Design Thinking
- Stories from English Literature

PEDAGOGY

Stimulating
Critical
Thinking

Concrete
Industry -
Academia
Relationship

Application
Oriented
Pedagogies

Counselling
and Career
Guidance

Interdisciplinary
Skills
Development

Futuristic
Syllabi

Igniting
Innovations
and Creativity

ELIGIBILITY CRITERIA FOR ADMISSION

The applicant must have passed the Gujarat Higher Secondary Education Board (GHSEB)/ Central Board of Secondary Examination (CBSE) / Indian Council of Secondary Examination (ICSE) or its equivalent under the 10 + 2 pattern in General or Science stream during the current year with the following subjects:

- (1) English
(2) Any one of the following subjects:

- Mathematics
- Physics
- Accountancy
- Accounting and Book Keeping
- Statistics
- Business Mathematics
- Computer

The candidate must have obtained the following minimum percentage of aggregate marks (i.e., total marks obtained divided by the maximum total marks admissible, including marks of all subjects, theory and practical):

- For open category candidates : 45%
- For Reserved category candidates: 40%



HACKATHON



2 teams of BCA bags first prize in Gujarat government initiative in "Smart Gujarat for New India – Hackathon 2018" competition. The event involved 16 Departments that addressed 206 problem statements given by Government of Gujarat to be solved by 1,100 teams comprising more than 8,000 students from 202 colleges affiliated to 35 universities under the guidance of 500 unique faculty mentors making it the highest in such open innovation experiment.



HARDWARE EXPLORATION & EXPERIMENTATION

At FCAIT, students are rigorously groomed and trained to excel in different domains of Computers and IT. Students explore various open source micro controllers and experiment on different projects involving arduino uno, raspberry pi and robotics. This provides them with opportunities to broaden their logical and practical capabilities in software as well as hardware domains.

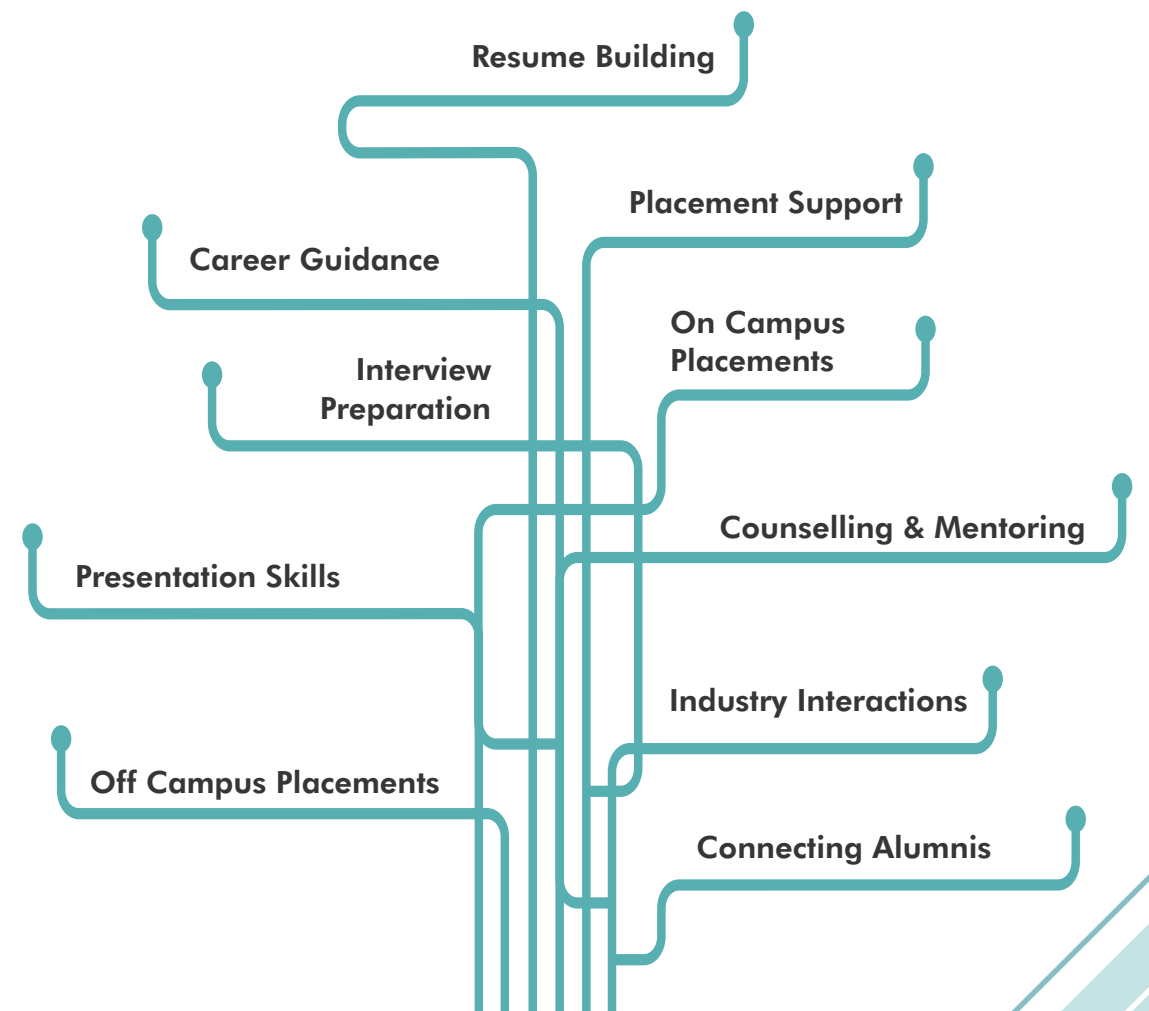


PLACEMENTS

Students are constantly upskilled on various aspects as presentation skills, resume building, personality development, interview preparation, communication skills so that they can upgrade multi-dimensions of their personalities to become competent professionals.



Over the years, FCAIT – BCA has emerged as one of the most favoured destination for hiring fresh talents. Through recruitment drives, the institute aspires to provide Industry compatible professionals bearing distinctive Quality, Discipline, Self-Learning, Ethics and Values.



OUR RECRUITERS



INTERNATIONAL EXPORSURE



ITS ALL GOING ON @ BCA

