GLS UNIVERSITY

|| उद्यमं समवाय परि ||

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Promoted By Gujarat Law Society Since 1927

Faculty of
Computer Applications
& Information Technology

BACHELOR OF COMPUTER APPLICATIONS (BCA)
SIX SEMESTERS DEGREE COURSE

GLS University is a statutory state private university established by the 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 area 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, Design, Communications, Social Sciences, Commerce etc. It already offers programmes like MCA, MBA, MSc (IT), iMSc (IT), BCA, BBA, iMBA, BCom, MCom, B. Design, M. Design, PGDCA and PhD. With a view to providing an impetus to research, the University intends to have research focus in its under graduate and post graduate programmes.

GLS University, with its rich legacy of Gujarat Law Society that has been in the field of education for over a period of nine decades is now poised to become Gujarat's first globally relevant university, delivering quality education at affordable costs.

PIONEER IN COMPUTER SCIENCE EDUCATION

FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY – FCAIT

The institute offers comprehensive Undergraduate Computer Science program which integrates the best in academic and technological realms. The institute aims to inculcate in the students a culture characterized by integrity, mutual respect, enthusiasm and hard work. The environment enables students to co-operate and compete to acquire an in-depth knowledge of computers and thus, carve a niche in the IT industry. The institute also lays strong emphasis on social values, so that students emerge as successful and ethical professionals as well as responsible human beings. The institute adorns a hi-tech environment that constantly exposes the learners to the latest technology. The spectrum of interactions and activities like Seminars, Workshops, Guest Lectures, Alumni Meet, Sports Meet, Educational Tours, Extension Activities, Cultural Activities etc. are regular features aiming at bringing an overall development of the students.

BCA PROGRAMME

With the rapid growth of IT industry worldwide, the demand of computer professionals is briskly increasing. This increasing growth has created a lot of opportunities for the computer graduates. The computerization of processes in various work areas have yielded requirement of IT manpower as core human resource. FCAIT - Bachelor of Computer Applications (BCA) Programme is a three year (six semesters) Under Graduate Programme based on Choice Based Credit System (CBCS). The syllabus of the programme comprises of latest and exciting subjects like Embedded Systems, Digital Marketing, Cloud Computing, Mobile Application Development in IOS and Android, Website Frameworks (Ruby on Rails, Joomla, Drupal), PHP, Programming languages (Python, C++, JAVA), Networking, Data structure, Green Computing etc. The BCA Programme is structured to balance theory and practical elements by combining classroom delivery and discussions, practical problem solving, group presentations, experiments with new concepts and internal as well as external software development projects

FUTURE PROSPECTS

Computer technology is a rapidly growing field with numerous opportunities. Since BCA is not only about computers but also about technology, there are very bright prospects in this field. Candidates completing BCA can find opportunities in private as well as government sectors. After the successful completion of BCA, the students will be able to select from diverse options and opportunities to shape their careers in multi-faceted 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.

OUR USP

- Educational and Operational credibility of over 20 years
- Best-in-the-League Faculty members
- Unique pedagogical approaches through ICT tools and techniques
- State-of-the-art Infrastructural resources
- Excellent Placement support and guidance
- Emphasis on proactive learning
- Hands-on practical sessions
- Extensive collection of books, e -resources/ journals, periodicals and e-learning materials

ALUMNI SPEAKS

GLS inspired me to achieve a level higher than I thought. I have discovered a passion for learning & exploring, for asking questions that weren't even on my radar three years ago.College prepared me for a career as well as life outside of my career. College has given me a chance to sharpen my skills in my field of choice.

- Jaimin Gajjar(CEO, JOE Solutions)

My experience at GLSICA was extremely wonderful, especially in the area of Software Development. Practical examples and cases, which were discussed in the class, are helping me a lot in the Industry. It has made me more disciplined & helped me to grow not only professionally but also holistically. The faculty has always been supportive and inspiring guides, and also challenging taskmasters.

Nirzari Parikh (Technical Data Analyst, Accrease Aps, Denmark)

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 in higher education. The subjects are categorized as:

- Core Courses (CCs)
- Core Elective Courses (CECs)
- Elective Courses (ECs)
- Foundation Courses (FCs)

SEMESTER 1

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
- Communication Skills

Elective Course (Any One)
- Learning from World Leaders
- Culture & Civilization
- Health Education
- Gandhian Movement

SEMESTER 2

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 (Any One)
- Fundamentals of Accounting
- Professional Communication in English
- Discrete Mathematics

Elective Course
- Environmental Studies

SEMESTER 3

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 (Any One)
- Statistics for Data Analysis
- Introduction to Angular JS

Elective Course (Any One)
- Principles of Management
- Soft Skills Development
- Introduction to Indian Constitution
- Green Computing

COURSE STRUCTURE

SEMESTER 4

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 (Any One)
• E-Governance
• Introduction to Embedded Systems

Elective Course (Any One)
• Digital Marketing
• History of Gujarat & its Culture
• Disaster Management
• Design Thinking
• Stories from English Literature

SEMESTER 5

Core Courses
• Website Development Using PHP & MySQL
• Advanced Java
• Practical on PHP
• Practical on Advanced Java
• Software Development Project – I

Foundation Course (Any One)
• E-Commerce
• Operation Research
• Introduction to Web Services

Core Elective Course (Any One)
• Software Project Management
• Introduction to Cloud Computing

SEMESTER 6

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

Foundation Course (Any One)
• Enterprise Resource Planning
• Management Information System
• Emerging Technologies

Core Elective Course (Any One)
• Website Frameworks - I (JOOMLA)
• Website Frameworks - II (RUBY on Rails)
• Introduction to Drupal

LEARNING BEYOND SYLLABUS

Hackathon : 2 teams of BCA bagged first prize in Gujarat government initiative "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.

Team Attendance Spy won 1st prize in Education Department & 3rd Position in amongst 1100 teams across 16 Departments.

Team DigiMed won 1st prize in Heatlh & Family Welfare Department

PLACEMENT OPPORTUNITIES

Excellent Teaching Support

Learning Facilitated By Technological Teaching

Exploring Ideas

International Immersion Program

LEARNING @ BCA

Software Experimentation

Knowledge Enhancement Presentations

Counselling & Career Guidance

Communication Skills Development

Personality Development Seminars

Public Speaking & Leadership Training

Hardware Exploration & Experiementation

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 and

(2) Any one of the following subjects:

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

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%

ACADEMICS

FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY - BCA Programme
(Formerly Known as GLS Institute of Computer Applications - NAAC Accredited)

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