FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY

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BCA SPECIALIZATION BSC(IT) SPECIALIZATION

Exclusive IT Programmes for Science & Commerce Stream

PIONEER IN COMPUTER SCIENCE EDUCATION

GLS UNIVERSITY

GLS University is committed to fostering an innovative and ideal learning environment, building on the legacy of excellence established by its founding institution, Gujarat Law Society (GLS). Founded in 1927, GLS is one of the oldest and largest educational organizations in Gujarat. The vision of providing exceptional education was set forth by prominent leaders like Sardar Vallabhbhai Patel, Shri Ganesh Mavlankar—the first Speaker of India—and Shri I. M. Nanavati. GLS University was established in April 2015 under the Gujarat Private University Act 2009.

In a short time, it has grown into a mammoth institution, enrolling over 15,000+ students across 8 departments and offering over 25+ programs in a variety of fields, including Business Management, Design, Law, Computer Applications, Engineering, Commerce, Performing Arts, and Research, at both undergraduate and postgraduate levels, all aimed at enhancing educational experience. GLS University has been awarded the NAAC A+ grade with a CGPA of 3.44 (1st), making it the only private university in Gujarat to achieve the highest points. This achievement reflects the university's comprehensive growth in various areas, including industry-focused course curricula, innovative teaching methods, research and innovation, infrastructure development, e-governance, and its commitment to promoting social values within the community.

At GLS University, we offer a wide range of programs that combine flexibility, hands-on learning, and an interdisciplinary approach, empowering students to explore their passions and pursue their dream careers. We are committed to shaping socially conscious individuals through intellectually stimulating challenges and a culturally diverse environment.

GLS University is a contemporary institution that upholds cultural and heritage values while fostering a creative and enriching learning environment. Its approach is rooted in national relevance, regional recognition, and global significance. Located in the heart of Ahmedabad, the university provides a safe, welcoming space with student-centric infrastructure. Set amidst a lush green campus, students have access to a wide range of facilities, including modern classrooms, computer labs, a well-equipped library, indoor and outdoor sports areas, a gym, seminar halls, an auditorium, a canteen, and more, all designed to support both academic growth and recreational activities.

With a rich heritage in Gujarat's educational landscape, GLS University has long been a leader in innovation within the field of education. Our strong industry partnerships, exceptional career services, and top-tier teaching ensure that GLS students acquire the knowledge and skills necessary to achieve their aspirations. Our faculty members are experts in their respective fields, dedicated to conducting research that creates a meaningful social and environmental impact, contributing positively to the nation.

GLS University is recognized as an educational hub that blends liberal thinking with rigorous learning, fully aligned with the principles of the NEP 2020. We offer flexible entry-exit options in relevant programs, along with a dual degree program, to support a multi-disciplinary approach for students. In addition, the university emphasizes an industry-oriented curriculum and provides an industry apprenticeship program through multiple corporate collaborations, enhancing experiential learning opportunities for students and preparing them for real-world challenges.

FROM PRESIDENT'S DESK

Dear Prospective Students,

Greetings from GLS University!!!!

We are dedicated to achieving excellence, fostering innovation, and nurturing creativity to improve lives. In a city where East meets West, our vision is to gain global recognition for our professional education, which emphasizes the blending of diverse cultures and intellectual traditions, and for research that creates a meaningful impact.

Aligned with this vision, Gujarat Law Society, the founding body of GLS University, has built a strong academic environment since its establishment in 1927. It is renowned for its outstanding academic programs, experienced faculty, corporate partnerships, global strategic alliances, and visionary leadership. Our alumni are making notable contributions across various sectors worldwide, and thousands of professionals have chosen to pursue their education at our university.

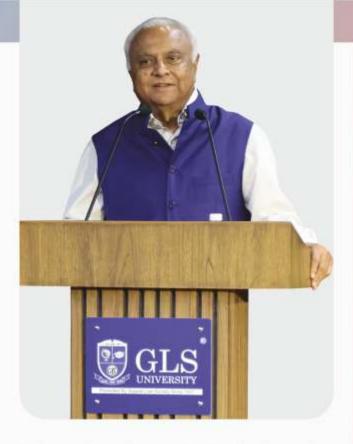
As a globally recognized university, we strongly emphasize diversity, intercultural learning, and a global perspective. Our esteemed faculty members are carefully selected from across the country, bringing a wealth of knowledge and experience. We have built an extensive international network of academic collaborations and have designed our curriculum in partnership with leading educational institutions worldwide.

We are proud to announce that GLS University has been awarded A+ NAAC grade. This achievement stands as a testament to the dedication and hard work of all our stakeholders and reflects the respect and pride GLS University has earned within the education community.

We have developed world-class amenities and facilities to support the university's stakeholders, creating an environment that fosters innovative learning and encourages creativity. GLS University is committed to continuously evolving its infrastructure to meet the changing needs of the dynamic educational ecosystem.

GLS University is a trailblazer in delivering education that meets global standards. Our goal is to develop students into well-rounded individuals who can approach issues from diverse perspectives, communicate with clarity, and emerge as leaders dedicated to serving the public good.

GLS University's educational approach focuses on building strong foundational knowledge, fostering rigorous academic research, and offering an innovative curriculum paired with hands-on experience in addressing real-world challenges. We aim to prepare students to become ethical leaders in an increasingly diverse and complex world. Understanding



industry demands, we prioritize developing key skills in students, enhancing their Intelligence Quotient (IQ), Emotional Quotient (EQ), Analytical Quotient (AQ), and Creative Quotient (CQ) to ensure their holistic growth.

GLS University adheres to the National Education Policy (NEP) 2020, which strives to create a holistic, flexible, and multidisciplinary education system that aligns with the demands of the 21st century and supports the 2030 Sustainable Development Goals. While the policy's vision is commendable, the key to success lies in its effective implementation.

Our vision for the next decade is to create a holistic environment encompassing state-of-the-art infrastructure, distinguished faculty, a conducive learning and development atmosphere, strong research orientation, enhanced innovation capabilities, and global outreach. This approach will ensure our students' overall grooming and development, equipping them to excel in national and international arenas.

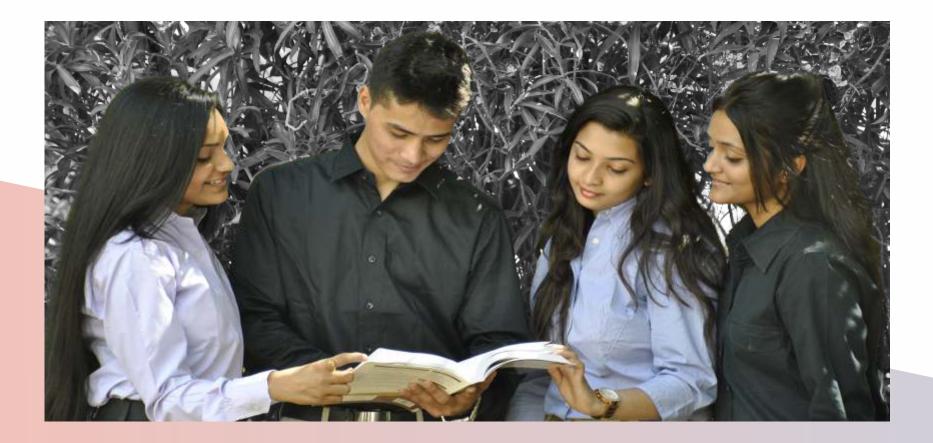
> Sudhir Nanavati President

FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY

FCAIT is known for achieving excellence by inculcating educational, social, and ethical values in students for their holistic upliftment. The institute promotes the overall growth of students by equipping them with knowledge of the latest technological advancements and keeping them updated on current industry trends. Imparting outcome based education is the prime motto of the institute. The institute provides enormous opportunities to the students and equips them with the skills, opportunities, and knowledge that hold significance for life-long learnings. The focus of the institute is to motivate students acquiring domain expertise and life skills to sustain life outside the periphery of the classroom.



Ranked amongst **Top 50** BCA Colleges of India in the All India Survey by **India Today, Outlook India & OPEN Magazine**



DISTINGUISHING FEATURES



COURSES OFFERED

Dual Specialization (3 Years) Honors with Dual Specialization (4 Years)

(4 Years)

BCA + MCA (Integrated MCA) OR BScIT + MScIT (Integrated MScIT) (5 Years)

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BCA

Dual

Specialization

Artificial Intelligence & Machine Learning

Artificial Intelligence &

Machine Learning

Development

BCA (Dual Specialization) 3 Years with options to opt for

BCA (Hons.) (4th Year)

Integrated BCA + MCA (4th & 5th Year)

BSc(IT)

Dual Specialization (Morning Shift)



Web

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BSc(IT) (Dual Specialization)

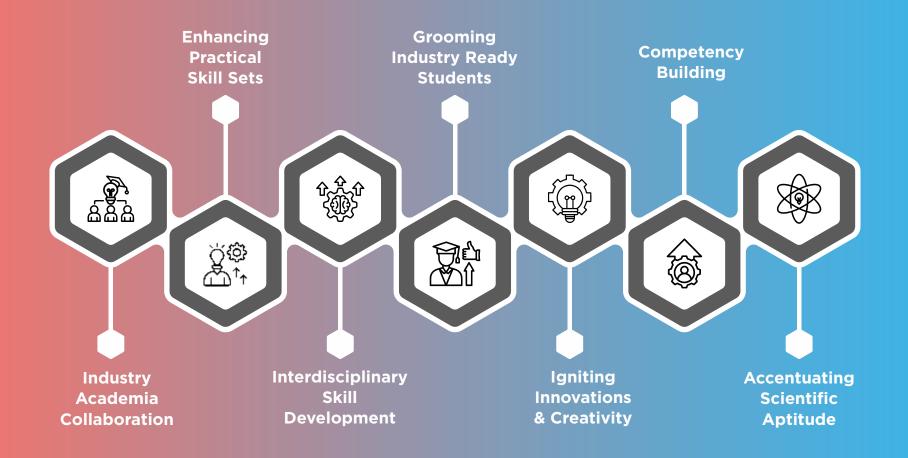
3 Years with options to opt for

BSc(IT) (Hons.)
 (4th Year)

Integrated BSc(IT) + MSc(IT) (4th & 5th Year)



SHAPING YOUR CAREER



FUTURE OPPORTUNITIES



Robotics Engineer



Data Scientist



Information Systems Manager



Full Stack Developer



Network Security Engineer



Business Intelligence Developer



Database Administrator



AI & ML Engineer



Information Technologist



Data Analyst



Web Designer



Network Architect

BACHELOR OF COMPUTER APPLICATIONS

BCA SPECIALIZATION

The Bachelor of Computer Applications (BCA) programme with Specialization in Artificial Intelligence & Machine Learning (AI & ML) and Web Development is designed to equip students with comprehensive knowledge and skills in two cutting-edge fields of computer science. This programme integrates theoretical knowledge with practical application to prepare students for a successful career in the rapidly evolving IT industry. The syllabi is updated as per the NEP 2020 to make student-centric education viable to all.





SEMESTER - 1

- Introduction to Programming & Problem Solving
- Fundamentals of Computer Organization
- Web Technologies
- Mathematics for Computer Science I
- Publishing & Multimedia Tools
- Ability Enhancement Course 1
- Value Added Course 1

SEMESTER - 3

- Programming with Java
- Computer Networks
- XML
- Operating Systems
- Introduction to Embedded Systems
- Specialization Course 1
- Ability Enhancement Course 3
- Value Added Course 3

SEMESTER - 5

- Cross Platform Mobile Application Development
- Information Security
- Programming with PHP
- Distributed Database
- Management Information System
 OR
- Computer Graphics
 - OR
- Design Thinking
- Specialization Course 3
- Specialization Course 4
- Specialization Course 5

SEMESTER - 2

- Object Oriented Programming
- Computer Architecture & Systems Programming
- Database Design
- Mathematics for Computer Science II
- Linux Programming
- Ability Enhancement Course 2
- Value Added Course 2

SEMESTER - 4

- Python Programming
- Data Structures & Algorithms
- Object Oriented Analysis & Design
- Relational Database Systems
- Specialization Course 2
- Ability Enhancement Course 4
- Value Added Course 4

SEMESTER - 6

- Cloud Computing
- Software Engineering
- IoT Fundamentals
- Website Frameworks
- Capstone Project
- Specialization Course 6
- Specialization Course 7
- Ability Enhancement Course 5

Artificial Intelligence & Machine Learning

- Introduction to Artificial Intelligence
- Introduction to
 Machine Learning
- Hands on
 Machine Learning
- Introduction to Data Science
- Tools & Techniques for Data Science
- Introduction to Natural Language Processing
- Image Processing

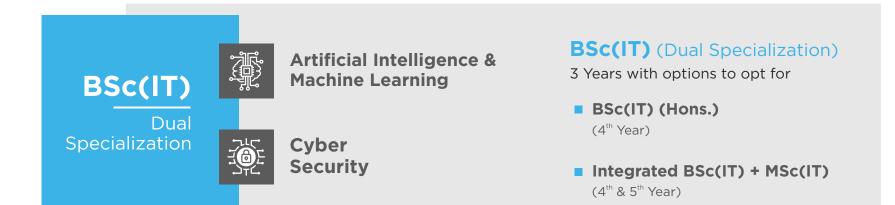
Web Development

- Introduction to Web Services
- Web Development using Angular
- Web Development using React
- Full Stack
 Development
- Web Development using JAVA
- Hands on Web
 Development using JAVA
- Introduction to Data Science

BACHELOR OF SCIENCE (IT)

BSc(IT) SPECIALIZATION

The Bachelor of Science in Information Technology (BSc.(IT)) programme with Specialization in Artificial Intelligence & Machine Learning (AI & ML) and Cyber Security is designed to provide students with a strong foundation in IT fundamentals while allowing them to focus on two distinct yet interconnected fields of study. This programme aims to prepare students for careers in the rapidly evolving technology landscape by equipping them with specialized knowledge and skills relevant to AI & ML or Cyber Security. The updated syllabi follows NEP 2020 to offer students with most updated course content.





SEMESTER - 1

- Problem Solving through Programming
- Fundamentals of Information Technology
- Web Technologies
- Mathematics for Computer Science I
- Publishing & Multimedia Tools
- Ability Enhancement Course 1
- Value Added Course 1

SEMESTER - 3

- Java Programming
- XML
- Fundamentals of Operating Systems
- Microprocessor & Assembly Language
- Introduction to Electronics, Digital Logic & Circuits OR
- Numerical Methods
- Specialization Course 1
- Ability Enhancement Course 3
- Value Added Course 3

SEMESTER - 5

- Cloud Computing
- Programming with PHP
- Object Oriented Analysis & Design
- Database Systems II
- Embedded Systems II
- OR Multimedia Systems
- OR
- Design Thinking
- Specialization Course 3
- Specialization Course 4
- Specialization Course 5

SEMESTER - 2

- Object Oriented Programming
- Fundamentals of Computer Organization
- Database Systems I
- Mathematics for Computer Science II
- Shell Scripting
- Ability Enhancement Course 2
- Value Added Course 2

SEMESTER - 4

- Programming with Python
- Data Structures
- Computer Networks
- Embedded Systems I
- Specialization Course 2
- Ability Enhancement Course 4
- Value Added Course 4

SEMESTER - 6

- Cross Platform Mobile Application Development
- Fundamentals of IoT
- Software Engineering
- Website Frameworks
- Capstone Project
- Specialization Course 6
- Specialization Course 7
- Ability Enhancement Course 5

Artificial Intelligence & Machine Learning

- Introduction to Artificial Intelligence
- Introduction to Machine Learning
- Hands on
 Machine Learning
- Data Science
- Tools & Techniques for Data Science
- Introduction to Natural Language Processing
- Image Processing

Cyber Security

- Essentials of Cyber Security
- Cryptography & Network Security
- Hands on Cryptography & Network Security
- Digital Forensics & Legal Perspectives
- Tools & Techniques of Cyber Security
- Intrusion Detection & Ethical Hacking
- Data Science

ABILITY ENHANCEMENT COURSES

- Parallel Processing
- Software Testing
- System Software
- Operation Research
- Communication Skills
- Foreign Languages
- Creative Writing

- Ethics & Moral Values
- Workplace Communication
- Personality Development Skills
- Stories from English Literature
- Learning Values through Literature
- Augmented Reality/ Virtual Reality
- Technical & Professional Communication



VALUE ADDED COURSES



- IT in Healthcare
- Digital Marketing
- Introduction to IKS
- Gujarat: Culture & Tradition
- Gandhian Thoughts
- Lessons from Indian Leaders
- Environmental Studies

- History of Computing
- Indian Constitution
- Green Computing

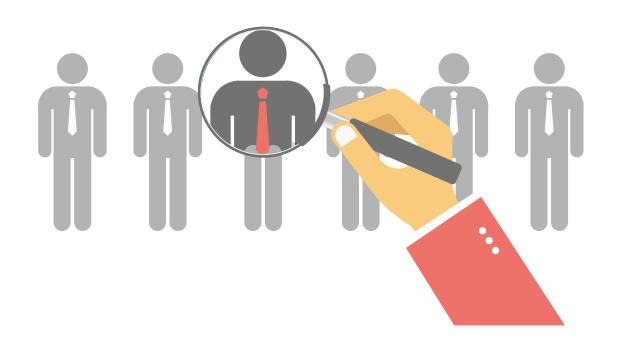
- Principles of Management
- E Governance & E Commerce
 - Startup & Entrepreneurship Development
- Financial Education & Investment Awareness

uniosity fuels CODE, ideas transformed to INOVATIONS

INTERNSHIPS & PLACEMENTS

The Placement Cell organizes, supports and supervises campus recruitments and selection process for students. Students are trained in essential placement related skills throughout the year such as resume building, interview preparation and group discussion. The cell provides the students with mentorship for career support and 100% assistance in acquiring internships and placements.





RED HAT ACADEMY

GLS University is excited to present an extraordinary partnership with Red Hat Academy. Red Hat Academy partners with academic institutions around the world to provide the next generation of IT talent with free access to a range of Red Hat's training courses and certification exams. By joining GLSU, you gain access to plethora of cost-effective courses.



Red Hat Academy certification offerings

01	Red Hat System Administration I (Rh124)
>>	Red Hat System Administration I (Rh124)
>>	Red Hat System Administration II (Rh134)
>>	Red Hat System Administration III: Data Center Services for Red Hat Enterprise Linux 7 (Rh254)
>>	Red Hat Enterprise Linux Automation with Ansible® (Rh294)

02 Application Development

Red Hat Application Development I: Programming in JavaTM EE (Ad183)

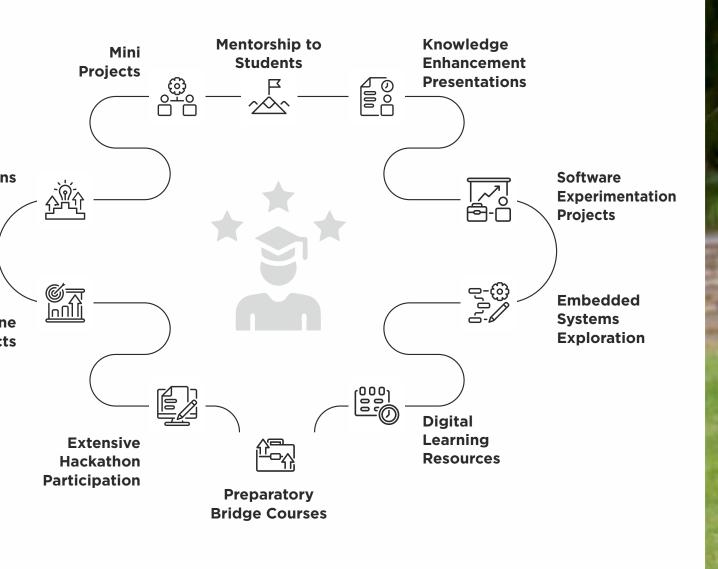
Red Hat Enterprise Linux Automation with Ansible® (Rh294)

03 Cloud Computing

>>	Red Hat OpenStack Administration I: Core Operations for Domain Operators (CI110)
>>	Red Hat OpenShift I: Containers & Kubernetes (Do180)
>>	Introduction to OpenShift Applicationas (Do101)
>>	Red Hat EnRed Hat OpenShift Development I: Introduction to Containers with Podman (Do188) terprise Linux Automation with Ansible® (Rh294)

TOWARDS ACADEMIC EXCELLENCE





TECHNO VERSE

EDU XPLORE









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SHADE



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CAMPUS PULSE

CULTURAL FIESTA









Empowering Passions, Enriching Experiences

























Celebrating Colors, Cultures, and Creativity







Hackathon is a pioneering series of competitions held at International, National and Regional levels to promote and leverage the technical skills of the students. Students of FCAIT have proposed various "Out of the Box" solutions for multidisciplinary fields of Social Relevance like Indoor Mapping and Navigation, Appointment Management for Government Officers, IoT Based Notice Board, Vehicle Monitoring System with Anti-Theft and Security, SMART Transportation and Pollution Control. Our students represented the institute in various events like Smart India Hackathon, e-Yantra Hackathon organized by IIT Bombay, KAVACH Cybersecurity Hackathon, SSIP Hackathon and many more.

FCAIT students addressed the Hackathon challenge "Bridging Digital Divide: Inclusive Virtual Classroom for Under-Resourced Indian Schools." and emerged victorious, winning a cash prize of INR 20,000.

FCAIT students developed a Prototype for project titled "Development of a Non-Electrical Device for Tracking the Movement of the Sun to Optimize Solar Panel Efficiency" that was represented at FINALE of SIH Hackathon 2024 at Coimbatore, Tamil Nadu.



SMART SOLUTIONS FOR A BETTER TOMMORROW

The institute encourages students to explore new possibilities in incipient technologies and provides a platform to engrave engineering and industry skills. Students experiment and develop various loT based projects on a Single Board Computer - Raspberry Pi, and Microcontrollers - Arduino, Photon Particle, and Node MCU through live models such as Smart Gloves Gesture Vocalizer, Smart Glass for the Blind, Digital Menu Ordering Model, Smart Traffic Controller, Smart Pet Feeder, Bipad Robot, Magic Mirror, ChessMate, Dam Overflow Monitoring System, Indoor Navigation System, Smart Trolley, and many more.



ALUMNI SPEAKS



My experience at GLS has been truly memorable. The institute provided me with exposure beyond the curriculum, fostering a well-rounded learning experience. Along with academics, we were encouraged to participate in various extracurricular activities, which contributed to our overall growth. The faculty went above and beyond to help students understand complex concepts and address any doubts or concerns, making the learning journey even more enriching.

> Kinjal Akhani Cloud Engineer, Google



Looking back, my time at GLS University was a transformative journey that laid a strong foundation for my career in AI. The well-structured curriculum provided me with the technical expertise and industry insights needed to excel in this fast-evolving field. The unwavering support of the faculty made complex subjects exciting and approachable, while the university's emphasis on industry alignment and open-source contributions gave me a competitive edge.

> Akshat Surolia Senior AI & Ops Engineer, Wysa



Studying at GLS was an incredible experience. The faculty members were highly interactive and always supportive, emphasizing practical knowledge that proved invaluable in my professional journey. I can confidently say that the institution goes beyond quality education—it also encourages extracurricular activities that contribute to holistic growth. The knowledge and skills I gained here have played a crucial role in shaping my career.

> Saloni Shah Website Developer, Tata Consultancy Service (TCS)



Attending GLS was a transformative experience. The supportive faculty and collaborative community exposed me to diverse ideas and practical insights, fostering both personal and professional growth. I am deeply grateful for the mentorship and lasting connections that continue to shape my career. GLS has given me invaluable opportunities, and it will always hold a special place in my heart.

> Harsha Punjabi Product Designer, Sandcup Design Studio



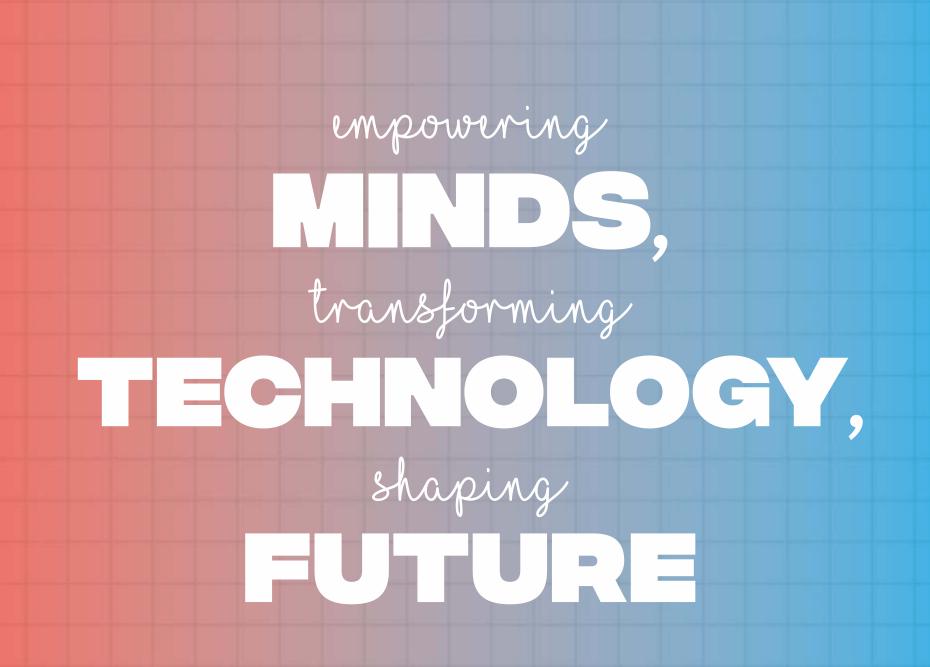
My journey at GLS laid the foundation for the professional milestones I have achieved today. The institution provided a learning environment that honed my analytical thinking and problem-solving skills—both crucial in my role as an Incident Response Specialist. Beyond academics, GLS instilled a mindset of adaptability and continuous growth, preparing me for real-world challenges. I take immense pride in being a GLS alumnus and carrying its values forward.

Meet Mehta Senior Security Incident Response Specialist, UST Global



My experience at GLS University was extremely wonderful.Practical examples and cases, which were discussed in the class are helping me a lot in the Industry currently. The commitment to student development and innovation have fostered my development and success.The strong alumni network has enabled me to thrive in my career and gain professionally excellence

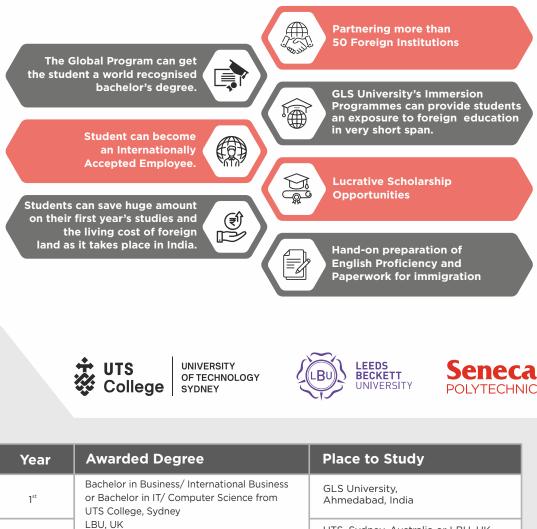
> Akash Thakkar Associate Team Lead, SPEC-INDIA



SCHOOL OF INTERNATIONAL STUDIES GLOBAL PROGRAMMES

The Global Programme is a program designed to help students prepare for undergraduate or graduate studies at universities in the worldwide. The program is offered by several Foreign Universities and colleges and aim to provide students with the necessary skills and knowledge to succeed in their academic studies.

Upon successful completion of the Global Programme, students are typically guaranteed admission to the foreign university's undergraduate or graduate programs, provided they meet the academic and language requirements. This can be a great option for students who may not meet the university's admission requirements on their own, but who are otherwise qualified and motivated to succeed in their academic studies.



2nd & 3rd

Seneca Polytechnic, Canada

GLS University

UTS, Sydney, Australia or LBU, UK Seneca Polytechnic, Canada or GLS University, India

INTERNATIONAL COLLABORATIONS



EXCLUSIVE ACCOMMODATION ARRANGEMENTS FOR GLS UNIVERSITY

Elevate your student living experience with affordable luxury only at The Hive Hostels/ Cirlde Hostel At Hostels, we have curated every space and experience to suit your ever-changing moods and needs! We strongly believe that your hostel should be a place that enables you to relax, unwind and refuel so you have the power to win the world!

Everything and More -You Just Name It!



Comfy Bed



Spacious Cupboard



Study Table



Coffee Machine



Laundry Service



Pick-up & Drop Service



Delicious Meals and Whatnot!



A Place where you Inspire and Be Inspired The Hostels is more than just a roof and 4 walls-it's your comfort zone, a habitat, your own space where you can meet like-minded people, learn from them, and teach them a thing or two. Here you can express your vision and talk about your dreams and goals without being judged.

The Hive Hostel: +91 92271 14940 , 1800-572-0709 Cirkle Hostel: +91- 97245 49049, +91-99983 65202

*GLS University has collaborated with The Hive Hostels & Cirkle Hostel for hostel facilities where hostel is not managed and owned by GLS University

CAMPUS RESOURCES













ELIGIBILITY CRITERIA

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 the Commerce or Science stream, during the current year with the following subjects:

- 1) English
- 2) Any one of the following:
 - Mathematics Physics Statistics Business Mathematics
 - Elements of Accountancy Elements of Book Keeping Computers

The applicant must have obtained the following minimum 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%

First Attempt Certificate is mandatory.

fostoring GREATING ollaboration & GURIOSITY





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