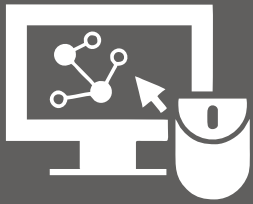


**FOUR YEARS
GRADUATION**

B.TECH

(CS&E)



FACULTY OF ENGINEERING & TECHNOLOGY

GLS University

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), iMCA, BCA, BBA, iMBA, BCom, Mcom, B. Design, M. Design, PGDCA, LLM and PhD. With a view to providing an impetus to research, the University intends to have research focus in its under graduate and postgraduate programmes. GLS University, with its rich legacy of Gujarat Law Society that has been in the field 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.

B.Tech (CS&E) Programme

The B.Tech is a full time, four years course, intended for the students interested in pursuing a career in Computer Science and Engineering. This course gives you an in-depth knowledge and expertise into various subjects of computer science and engineering domain. During the tenure of the course, a student acquires hands-on experience in various subjects of computer science and information technology.

The course has been designed to offer domain specialization in different tracks based on the current IT industry trends. B.Tech (CS&E) graduates get employed as IT engineers, software engineer, software architects, data analysts, cyber security expert, network administrator, web developers, app developers, and several other positions in IT sector.

Eligibility Criteria

- Passed 10+2 examination with Physics / Mathematics / Chemistry / Computer Science / Electronics / Information Technology / Biology / Informatics Practices / Biotechnology / Technical Vocational subject / Agriculture / Engineering Graphics / Business Studies / Entrepreneurship. (Any of the three)
- Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.
- OR
- Passed min. 3 years Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) subject to vacancies in the First Year, in case the vacancies at lateral entry are exhausted.
- Student should have appeared in GUJCET/JEE

Admission Procedure

- As decided by ADMISSION COMMITTEE FOR PROFESSIONAL COURSES [ACPC] GUJARAT STATE.
- **Provision of 50% Management Quota seats as per the rules & regulations.**
- The allocation for the seats of reserved categories will be as per the rules of the GLS University and State Government of Gujarat prevailing at the time of admissions.
- For more details please visit: www.jacpcldce.ac.in



Why B.Tech @ GLSU?

- 95 years of rich legacy of Gujarat Law Society.
 - 20 years of experience and expertise in IT education.
 - 20+ Foreign University collaboration under International Immersion programme.
 - 4 years programme designed to offer in-depth knowledge into computer science and engineering.
 - Specialization in 3 trending domains of IT sector: Data Analytics, Cyber Security, Artificial Intelligence & Machine Learning.
 - Associations with more than 100+ reputed IT companies.
 - Programme designed using Open Source Technologies as a delivery platform.
 - Student centric learning pedagogy systems.
 - Faculty team comprising of Academicians, IT managers and consultants.
- Real life problem solving using Capstone Project spread across 2 semesters.
 - 4 months full time Industry Internship in upcoming technologies of computer science and engineering.
 - A university with high success rate and excellent student support.
 - University located in the centre of Ahmedabad.

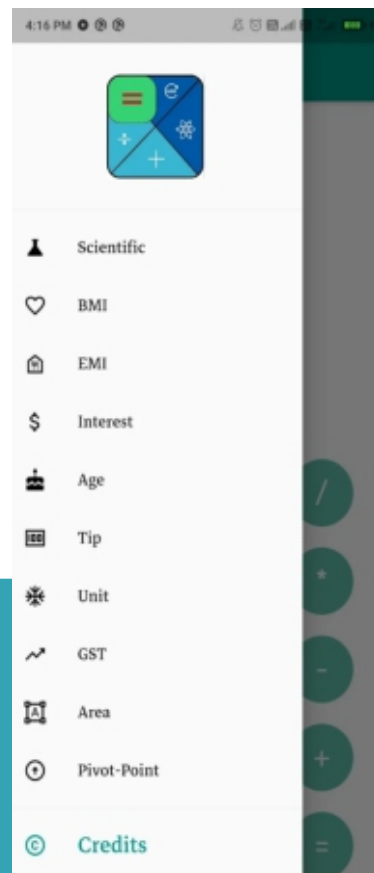
Pedagogy

Pedagogy like Lecture, Presentation, Webinars, Practical, Workshop, MOOC, i-Talk, Study Tour and Industry project are used to develop conceptual, analytical, knowledge gathering and decision making skills of the students and to prepare them to face the challenges of the organizational environment. Teaching activities are done in a well sanitized classrooms and labs.

Co-Curricular Activities

Apart from technical skills, the students are encouraged to participate in various co-curricular activities to enhance their interpersonal skills. The students to get involved into activities like Workshops, Seminars, Hackathon, Entrepreneurship, Android App Development, iOS App Development, Web Development and Capstone Project.

The university also organizes various activities like Annual Sports Meet, Youth Festival, Technical Events, Garba Celebration, Industry Visits, Picnic, etc. These activities keep them rejuvenated and provide opportunities to interact with their counterparts.



Campus Resources

- Fully furnished AC classrooms, seminar halls, tutorial rooms and conference rooms with projection systems.
- Well-equipped computer laboratories for hands-on practical sessions based on the curriculum.
- Separate experimental laboratory having Open Source Software, IOT devices available for unscheduled experiments.
- Dedicated multiple high-speed Internet connection of 100.0 Mbps.
- 150+ computers with Ubuntu 18.04 LTS and 60 computers with Mac OS.
- Campus wide WiFi facility provided through state of art HP Aruba solution.
- More than 10,000+ books and 5000+ ebooks in Computer Science, Engineering and Information Technology.
- More than 50 journals including open access journals of Computer Science & Engineering and other related subjects.
- An air-conditioned and spacious reading room.
- Residential facilities with fully furnished AC/Non-AC rooms for boys and girls in tie-up with Stanza living.



International Immersion Programme

GLS University aims to develop technically competent graduates with internationally competitive skills well-suited to the international jobs and assignments of today and the future. The prime focus is to bring internationalization by fostering globally connected research and scholarship.

There are formal and informal arrangements with Foreign Universities / Colleges for Student-Exchange Programme, Organizing Conferences, Joint Research & Visiting Faculty Arrangements. GLS University also offers International Pathway Programmes and Immersion Programmes that prepare a student to have a global educational experience, through exclusive partnerships and pathway arrangements with several institutions of repute in Canada, Australia, Dubai, Europe, Russia, and the USA.

- University of Newcastle, Australia
- Curtin University, Australia & Dubai
- Leeds Beckett University, UK
- Essex University, UK
- Luiss Business School, Italy
- New Jersey City University, USA
- Southern City University, California, USA
- Georgian College, Canada
- Centennial College, Canada
- Lasalle College, Canada USA
- Synergy University, Russia
- California Baptist University, USA
- Alliance with CIMA, UK
- Member of AIMS-International

Syllabus at a Glance

Semester – I	Semester – II
<ul style="list-style-type: none"> • Business Communication and Presentation Skills • Elementary Mathematics for Engineers • Environmental Studies • Computer Programming Paradigm • Computer Programming Laboratory • Computer Organization & Architecture • Practicals of Computer Organization & Architecture • Open Source Software 	<ul style="list-style-type: none"> • Elements of Indian History for Engineers • Linear Algebra • Universal Human Values and Value Education • Data Structures • Programming of Data Structures • Relational Database Management System • Programming of Relational Database Management System • Computer Networks
Semester – III	Semester – IV
<ul style="list-style-type: none"> • Economics for Engineers • Discrete Mathematics • Technical English • Object Oriented Computer Programming • Practicals of Object Oriented Computer Programming • Operating Systems • Linux Scripting • Design and Analysis of Algorithms • MOOC1 – Core Java 	<ul style="list-style-type: none"> • Differential Equations and Multivariate Calculus • Formal Languages & Automation Theory • Microprocessors • Scripting Languages • Practicals using Scripting Languages • Advanced Java • Programming in Advanced Java • Cryptography & Information Security
Semester – V	Semester – VI
<ul style="list-style-type: none"> • Probability and Statistics • Compiler Design • Structured & Object Oriented Analysis and Design • Artificial Intelligence and Machine Learning • Practicals of Artificial Intelligence and Machine Learning • Mobile Computing • Practicals of Mobile Computing • Capstone Project I • MOOC2 – Core Python 	<ul style="list-style-type: none"> • Numerical Methods • Computer Graphics and Visualization • Cloud Computing and Virtualization • Software Testing • Practicals of Software Testing • Unstructured Databases and Data Mining • Practicals of Unstructured Databases and Data Mining • Capstone Project II
Semester – VII	Semester – VIII
<p>In this semester the student will be offered 2 compulsory subjects and 6 subjects based on the track chosen by him/her:</p> <ul style="list-style-type: none"> • Embedded Computing Systems • Practicals of Embedded Computing Systems • Track # Subject 1 • Track # Subject 2 • Track # Subject 3 • Track # Subject 4 • Track # Practical 1 • Track # Practical 2 	<ul style="list-style-type: none"> • Industry Internship

Semester – VII Elective Track Subjects

Data Analytics	Cyber Security	Artificial Intelligence and Machine Learning
<ul style="list-style-type: none"> • Deep Learning • Business Intelligence and Analytics • Big Data Analytics • Time Series Analysis and Forecasting • Big Data Analytics using Hadoop (Practical) • Python for Data Science (Practical) 	<ul style="list-style-type: none"> • Cyber Laws • Digital Forensics • Ethical Hacking • Intrusion Detection and Internet Security • Working with Network Analysis Tools (Practical) • Vulnerability Testing (Practical) 	<ul style="list-style-type: none"> • Deep Learning • Knowledge Engineering and Intelligent Systems • Image Processing & Pattern Analysis • Natural Language Processing • Practicals of Image Processing & Pattern Analysis • Practicals of Natural Language Processing



Placements @ IT Courses

As a part of the placement process, a company visit the institute and witness the efforts that have gone into grooming the young computer science aspirants. The Placement Committee consisting of the Director, the Placement Coordinator and the faculty member work alongside the students in all the stages right from conceptualizing and designing the brochure to invite companies for the campus recruitment.

Placement cell trains the students in the following are as:

Grooming /

Resume Building, Analytical Thinking, Decision Making, Work Ethics, and Communication Skills.

Training /

Mock Interviews, Group Discussion, Presentation Skill, Aptitude Tests, Corporate Communication and Correspondence.

Campus Recruitment /

Online Test, Written Test, Group Discussion, Interviews.

A glimpse of our recruiters:

- 4C InfoEngg
- Anblicks
- Argusoft India Ltd.
- Aspire Software Solutions
- Bacancy
- Biztech IT Consultancy Pvt. Ltd.
- BizzAppDev Systems Pvt. Ltd.
- Bluepixel Technologies LLP
- CrossShore Solutions
- Cybercom Creation
- Cygnet Inc.
- elInfochips
- Global Vox LLC
- iFour Technolab Pvt Ltd
- Infosense Global
- Inventyv
- iView
- Knovos
- Knowarth Technologies
- Learniphi Technology
- Magneto IT Solutions Pvt Ltd
- Net-Square Solutions Pvt. Ltd
- Radixweb
- Redefine Solutions
- Sarjen Systems Pvt. Ltd.
- Shiv Technolabs Pvt. Ltd
- SoluLab
- Solution Analyst
- Source Ved
- Space-O Technologies
- Streebo Inc.
- Synoverge Technologies
- Tatvasoft
- Tech Compose
- TechHolding
- The One Technologies
- Third Rock Techkno
- WebCodeGenie
- Weblina India
- WebOccult Technologies
- Yudiz Solutions Pvt. Ltd.
- ZealousWeb



For Further Information Contact

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