

## Syllabus Outline

### Semester 1

Sr. No.	Subject
1	Data Science – I
2	Advanced Java
3	Cloud Computing
4	AI and Applications
5	Management Information Systems
6	Practicals based on Data Science – I (Using R)
7	Practicals based on Advanced Java
8	Practicals based on Advanced Python

### Semester 2

Sr. No.	Subject
1	Machine Learning with Python
2	Elective I
3	Blockchain Technology
4	Computer Networks
5	Software Engineering with UML
6	Practicals based on Android Application Development
7	Practicals based on Machine Learning with Python
8	Summer Assignment

### Semester 3

Sr. No.	Subject
1	Data Science – II
2	Elective II
3	Embedded Systems & Robotics
4	Information Security
5	Elective III
6	Practicals based on Data Science - II
7	Dissertation / Mini Project

### Semester 4

Sr. No.	Subject
1	Entrepreneurship
2	Industry Internship / Software Development Project

#### List of Subjects for Elective I (Semester 2)

Digital Marketing Technology
Ethical Hacking
Sensor Network and IoT
Distributed Database Systems

#### List of Subjects for Elective II (Semester 3)

DevOps, Docker and Containers
Parallel Programming Tools
Game Programming using OpenGL
Image Processing
Design Patterns

#### List of Subjects for Elective III (Semester 3)

Practicals based on iOS Application Development
Practicals based on Java Framework

## Placements @ GLS ICT

FCT MCA program provides the placement right in the 3rd semester itself to most of their students. The placement is normally hovering around 85 to 90%. We invite nearly 100 companies every year with various requirements. The industry liaison and cordial relation with the industry is the key component in driving these excellent results.

We have a placement cell that some of our experienced faculties with good industry linkage manages. They start by identifying the companies, communicate with the company authorities, invite them to discuss personally, assist them in the placement process, and continue helping them even when the students start working with them. Normally our students work for a 4th sem project with the company and the company recruits them once they complete the project. The placement cell organizes various activities in enhancing the placement ratio, provides cohesive communication directly with the recruiting companies, helps the student learn to focus on a specific career path, and so on.

Here is the list of some of the companies that visit GLS for placements.

- 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
- Cygnat Inc.
- elInfochips
- GlobalVox LLC
- iFour Technolab Pvt Ltd
- Impero IT Services 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
- Webline India
- WebOccult Technologies
- Yudiz Solutions Pvt. Ltd.
- ZealousWeb
- Zeus Learning



For Further Information Contact



#### Faculty of Computer Technology

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## Faculty of Computer Technology

GLS (Shailesh R. Parikh) Institute of Computer Technology  
NAAC Accredited

### MASTER OF COMPUTER APPLICATIONS (MCA)

Approved by AICTE  
TWO Years Programme

## GLS University

GLS University has been established with the objective of providing an ideal and creative learning environment and continuing the tradition of excellence in education of the sponsoring body of the University, viz., Gujarat Law Society (GLS).

Gujarat Law Society, established in the year 1927, is one of the largest and oldest educational institutions in the State of Gujarat. GLS was promoted by luminaries Sardar Vallabhbhai Patel, Shri Ganesh Mavlankar, the first Speaker of the country and Shri I.M. Nanavati with the vision of Excellence in Education.

Since its inception, GLS took a pioneering role by offering programmes in several disciplines such as Business Management, Computer Technology, Commerce, Business Administration, Design, Law etc. Moreover, exclusive research degrees like Ph.D have also been introduced in various disciplines. All the courses being offered at GLS have been having high preference and acceptance in the student community as well as in the corporate fraternity.

GLS currently has more than 25,000 students pursuing their graduate, post graduate and doctoral level studies at various levels within the university and its constituent colleges/institutions.

GLS has currently more than one million alumni, all established in several spheres of work including business, commerce, law, science, arts and culture. Several of these alumni are noted entrepreneurs. The university is currently hosted in a state of art campus within the heart of the city fully equipped with advanced technological tools to facilitate education.

## Faculty of Computer Technology

The Master of Computer Application course was initiated in India during 1984-85 by the University Grants Commission (UGC) and Department of Electronics to meet the shortage of skilled manpower in the country. Looking at the continued demand for trained manpower in the field of Information Technology, the Gujarat Law Society decided to contribute to the area of education in IT by establishing the Institute of Computer Technology offering prestigious MCA course in July 1999.

The All India Council of Technical Education has approved this institute as Post Graduate center for conducting 2 years full-time MCA course under self-financing scheme with the intake of 120. After the establishment of the GLS University in 2015, the MCA program is running under the Faculty of Computer Technology, formerly known as GLS (Shailesh R. Parikh) Institute of Computer Technology by following the same norms of the AICTE and ACPC (Admission Committee for Professional Courses).

The students at FCT gains the state-of-the-art knowledge in computer science using various ways such as industry interaction, project implementation, workshops and seminars. The institute also takes the feedback of the industry demands to establish the vision to update the syllabus and implement the updated syllabus as per the university guidelines.

## MCA Admission Eligibility Criteria

- For admission to MCA, the candidate must have Passed BCA/ Bachelor Degree in Computer Science Engineering or Equivalent Degree.
- OR  
Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 level or Graduation Level (with additional Bridge Courses as per the norms of the concerned University)
- Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination.

## Admission Procedure

- The admission to MCA is done in a centralized manner by the Admission Committee of Professional Courses (ACPC). **Out of the total seats, 50% of seats are filled under management Quota by the institute as per ACPC norms.**
- For further guidelines, please visit: [www.jacpcldce.ac.in](http://www.jacpcldce.ac.in)

## Institute Infrastructure

Some of the highlights of the course infrastructure:

- Well furnished, air-conditioned classrooms with a projection system, seminar halls, tutorial rooms, and a conference room beside an air-conditioned auditorium.
- Well-equipped computer laboratories for hands-on practicals based on the curriculum.
- Separate experimental laboratory having Open Source Software, IOT devices available for unscheduled experiments.
- Two 100 Mbps internet lines.
- 150+ computers with Ubuntu 18.04 LTS and 60 computers with Apple Mac OS.
- Campus wide WiFi.
- More than 9,000+ books and 4000+ ebooks in Computer Science and Information Technology.
- More than 50 journals including open access journals subscribed on Computer Science and related subjects.
- An air-conditioned and spacious reading room on the premises of the library.
- The institute provides residence facilities with fully furnished AC/Non-AC rooms for boys and girls in tie up with Stanza living.



## Salient Features of MCA Programme

The teaching-learning process includes case assignments, live projects, lab exercises, exploration of different software tools, and presentations with viva voce.

- Students are driven to develop entrepreneur skills, personality skills, and soft skills. Institute motivates students to learn additionally from videos and e-text content from MOOCs.
- Every year placements through campus is nearly about 85-90%.
- Innovated ways were adopted to ensure qualitative delivery of content and evaluation measures in online mode.
- Institute has well-qualified, knowledgeable, and experienced faculty members.

## International Immersion Program

GLS University aims to develop technically aware graduates with internationally competitive skills well-matched to the international jobs and assignments of today and the future. The prime focus to bring internationalization will be 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
- Georgian College, Canada
- Centennial College, Canada
- Lasalle College, Canada
- Synergy University, Russia
- California Baptist University, USA
- New Jersey City University, USA
- Southern City University, California, USA
- Alliance with CIMA, UK
- Member of AIMS-International

## Cultural & Extension Activities

The institute believes that for the overall development of the students, they need to indulge in areas of interest apart from scholastic activities. The cultural activities provide students an opportunity to showcase their other talents. The institute organizes cultural as well as technical festivals every year which include various activities like Skit, Antakshri, Dumb-Charades, One minute, Treasure hunt, Dance, IT Quiz, relay programming etc. Moreover, the institute also encourages and supports the students to participate in the youth festival organized by the GLS University for events like dance, fashion show, elocution, photography, poetry reciting, drama, skit, etc. The institute also motivates the students to participate in various academic and non-academic competitions across the state and some of them have won prizes as well.

- Every year, the institute organizes its flagship event of technical competition named 'Cybershadez', where students from different colleges across Gujarat participate in various competitions like programming, web designing, idea generation, database treasure hunt, IT Quiz, relay programming, debate, and many more.
- Every year, the institute organizes Thalassaemia Camp, Blood donation Camp, Social Trips to nearby schools in villages, where students participate and contribute to society.
- The institute organizes alumni meet regularly. During such events, current students have the opportunity to have guidance on current IT trends, new openings in markets, skills requirements, and corporate culture from former students.
- For the all-around growth of students, the institute organizes various workshops, guest lectures, and seminars where guests and eminent speakers are invited to deliver their talk.
- Institute arranges education tours to the industry to understand the business and strategy from time to time.



## Entrepreneurship

The nation can build itself only when we have local companies which satisfy local needs and invest locally. The institute believes in having more and more students own a company and recruit local students. For fulfilling this important need, the institute organizes a live discussion with the Entrepreneurs of some well-known enterprises so that the students have a clear idea of Entrepreneurship. The key points discussed by the Entrepreneurs are Idea Generation, Idea of Automation, Idea Exploration, Feasibility Study, Market Research, Market Study & Competition Study, Future Growth, Operational Plan, Working Capital, Infrastructure, Team Building & Recruitment, Market & Promotional Plan and Execution Plan. Students can also present their new innovative ideas during the study.

## Alumni

Over the two decades, more than 20 batches have been successfully awarded Master of Computer Applications Degree under the flagship of GLS. Alumni of the FCT have acquired respectable positions in the academic as well as corporate sectors and their continued collaboration with the institute helps to enhance the academic and research activities.

## MOU

The institute has signed MOUs with some prominent IT companies. The institute has a special association with many other IT companies in the vicinity not only for placement but other academic activities like participation in BOS, suggestions about the syllabus or a typical subject, arranging experts for special subjects, etc.