



# GUJARAT UNIVERSITY

DEPARTMENT OF ANIMATION,  
IT-IMS AND MOBILE APPLICATION



## MASTERS PROGRAMS

- FinTech (IT in Finance)
- Business Intelligence & Analytics
- Game Design & Development
- Mobile Application & UI Development
- Animation & VFX
- Network Security
- IMS & Cloud Technology

*"Learners Today, Leaders Tomorrow"*



**“ KNOWING IS  
NOT ENOUGH,  
WE MUST APPLY**



## ABOUT UNIVERSITY

The Gujarat University was conceived in the nineteen twenties in the minds of public-spirited and learned men like Gandhiji, Sardar Patel, Acharya Anandshankar B. Dhruva, Dada Saheb Mavlankar, Kasturbhai Lalbai and many others. However, the University could come into existence only after the achievement of independence. In 1949, the University was incorporated under the Gujarat University Act of the State Government 'as a teaching and affiliating University.' This was done as a measure of decentralisation and reorganization of University education in the then Province of Bombay.

During the course of its life of more than five decades, the University has seen the establishment of seven more Universities which were carved out of the jurisdiction of the Gujarat University, viz., Sardar Patel University, Saurashtra University, Bhavnagar University, South Gujarat University, Gujarat Ayurveda University, Gujarat Agricultural University and North Gujarat University. Even then, the Gujarat University is the largest university in the state catering to the needs of higher education of more than 2.75 lakh students scattered over 235 colleges, 15 recognised institutions and 24 approved institutions. There are 34 Post-Graduate University departments and 221 P.G. Centres.

Gujarat University is an affiliating University at the under-graduate level, while it is a teaching one at the post-graduate level. Indeed, the responsibility for post-graduate instruction has been statutorily given to the University, and accordingly it has evolved a plan of co-ordinated instruction under the direct control and supervision of the University so as to ensure efficient and diversified instruction. An important feature of this University is the system of external examinations in the Faculties of Arts and Commerce, both and under-graduate and post-graduate levels. The external examinations were introduced with a view to enabling working students and the others who could not afford the high cost of university education to realize their dream.

Gujarat University has developed phenomenally in the last 72 years to be recognized as a premier University in the country today. It provides education in one of the widest range of disciplines to about two lakh students.

## ABOUT DEPARTMENT

Gujarat University understands the need of the hour & acted upon for giving bright future to young generation.

By identifying promising sectors and putting together potent syllabi, University has started this department in 2010 with a roster of full-time courses in association with India's best-known industry experts that equip the student with the skills that tomorrow's industry is crying for today.

All our Courses are prepared by Animation & VFX are prepared by industry professionals. With a choice of these four different courses and subject matter specialists, that equip students with just the skills that tomorrow's industry will call for.

**This department have conducted various activities for overall development of students like cultural, social, sports, academics etc.**

**Overall 2000+ students have pass out from the department in last 11 years and placed in the prominent organizations at key positions.**

In simple terms, we are all about education that is ready: future-ready and industry-ready



- in 1949, the university was established under the Gujarat University Act.
- Number 44 in top 100 among the Indian university & number 60 in top 100 among the all educational institutes in India ranking by NIRF.
- Only 5 Star University in the State
- 15 recognised institutions
- 24 approved institutions
- More than 2.75 lakh students
- 235 colleges
- 34 Post-Graduate University Departments
- 221 P.G. Centres

# FINTECH (IT IN FINANCE)

(2 YEARS MASTER PROGRAM)



In this 2 year of program students will gain a firm handle on Financial Technology and data analytics and its role in banking and finance. The curriculum of the Finance and Technology track enables students to take an active role in the Technology transformation of the Finance industry. From big data to machine learning, Student will learn to use computational Finance using its data analytics. This 2 year program will provide students with in-demand financial econometrics, quantitative and analytical skills, including coding and programming capabilities, necessary to embark on a successful and exciting career in FinTech or in the financial services sector. Masters in this field will have a good understanding of finance, accounting, business information systems and analytic methods.



## SOME OF THE IMPORTANT HIGHLIGHTED MODULAR STRUCTURES

- + **Financial Econometrics**
- + **Corporate Finance**
- + **Financial Accounting**
- + **Financial Business Statistics**
- + **FinTech Primer**
- + **Digital Payments & Banking System**
- + **Foundations of FinTech & Associated Risks**
- + **Risk Management & IT Security**
- + **Fintech: Block chain, Cryptocurrencies & Smart Contracts**
- + **Fundamental & Technical Analysis**
- + **Data-driven Financial Analytics**
- + **Digital Transformation**
- + **Data Analytics and Cloud Computing using Python**
- + **Machine Learning and AI in Finance**



# BUSINESS INTELLIGENCE & ANALYTICS




(2 YEARS MASTER PROGRAM)



This 2 Years Master Program is the best and worldwide unique combination of essential elements of the Data field, such as database architecture, data mining, data warehousing, and data analytics. Apart from it students will be able to well equip with database design, implementation, and administration. This program has been designed in such a way to prepare students for the evolving and growing field needing data engineers, by providing them the holistic knowledge and technical skill to engineer big data systems, curate data, and integrate and process data so that data scientists and business analysts can access and interpret data in context to provide meaningful results to management. This program will offer a

multitude of courses in data engineering that are required to deliver the data results in a meaningful way to management. We plan to cover data management, advanced data management, data warehousing and business intelligence, column data bases, data science engineering, and big-data engineering. On the software engineering side, we are planning to offer advanced big-data programming using the powerful Python , R and Scala language and a course on advanced data science as well as cloud computing. Hadoop Multi-thread concurrent computing will be also offered as it is important for synchronizing a huge set of servers working in parallel to do large scale analytics to make things run faster.

The curriculum covers areas that prepare you for most lucrative careers in the space of Business Analyst, Data Science, Data Engineering and Advanced Analytics. It helps learner's master critical skills such as Business modeling, Machine learning, Artificial Intelligence, Deep Learning, Natural Language Processing.

## SOME OF THE IMPORTANT HIGHLIGHTED MODULAR STRUCTURES




- Hadoop Architecture
- PIG | HIVE | MapReduce | Spark
- Database administration
- Artificial Intelligence & Machine Learning
- Mongo DB (Non Structured Query language)
- Data mining
- Data warehousing
- Business Analytics
- Visual Insight of Data
- ETL (Extract - Transform - Load) & Azure cloud
- Big Data Programming Like (Python , R)
- Data Science by using Algorithm and designing the Model



# GAME DESIGN & DEVELOPMENT



(2 YEARS MASTER PROGRAM)

Build a career in Gaming Industry with the most comprehensive master's degree program in Game Design & Development.

**M.Sc. IT Game Designing & Development** is a four-semester programme designed for graduate students that helps learners build design and coding skills required to advance their career as a Game Designer & Game Developer.

The curriculum covers areas that prepare you for most lucrative careers in the space of Game Designer, Level Designer and Game Developer. It helps learners master critical skills such as 3D modelling, Game Coding, 3D Animation, Game Engines, Level Designing, Sound Designing and many more.



## SOME OF THE IMPORTANT HIGHLIGHTED MODULAR STRUCTURES

- |  |   |
|--|---|
| <input type="checkbox"/> Evolution of Games<br><input type="checkbox"/> Art of Story development<br><input type="checkbox"/> Art of Gaming Characters<br><input type="checkbox"/> 3D Painting<br><input type="checkbox"/> Programing language<br><input type="checkbox"/> Weapon design and development<br><input type="checkbox"/> Vehicle Design and development<br><input type="checkbox"/> Art of Environment studies and developments | <input type="checkbox"/> Advance programing language<br><input type="checkbox"/> Game Engines<br><input type="checkbox"/> Creative skill of Rigging<br><input type="checkbox"/> Motion Arts<br><input type="checkbox"/> Game Laanguage<br><input type="checkbox"/> Music and Sound Creation<br><input type="checkbox"/> Game Creation<br><input type="checkbox"/> Virtual Reality |
|--|---|

# IMS & CLOUD TECHNOLOGY



(2 YEARS MASTER PROGRAM)



The new-age Master of IT- IMS & Cloud Technology is a unique specialization that is offered by Gujarat University. The programme has been designed with inputs by industry experts to groom students for the competitive and fast-growing sector of international business. The curriculum has been prepared with industry requirements in mind and it emphasises practical, application-oriented learning.

The Program equips students with an in-depth knowledge of all aspects of IMS such as Networking, Operating Systems, Virtualization, Mail Server, Cloud Computing and Data Centre Technologies.

DURATION: 2 YEAR (4 SEMESTER)  
LAST SEMESTER INTERNSHIP

## This Program Will Help Students To:

- Server Fundamentals & configuration
- Microsoft server
- Microsoft SQL server & mariaDB
- Routing & switching
- Virtualization Technology & Firewall configuration
- Microsoft SCVMM & VMware Esxi

- Messaging server configuration & IT management concept
- Microsoft Exchange server
- ITIL concept
- Zimbra Mail server
- Cisco ASA Firewall
- Advance Routing Concept

- Cloud specialization & Advance Active directory
- AWS cloud service configuration
- Azure cloud service management
- User administration using ADDS





# NETWORK SECURITY

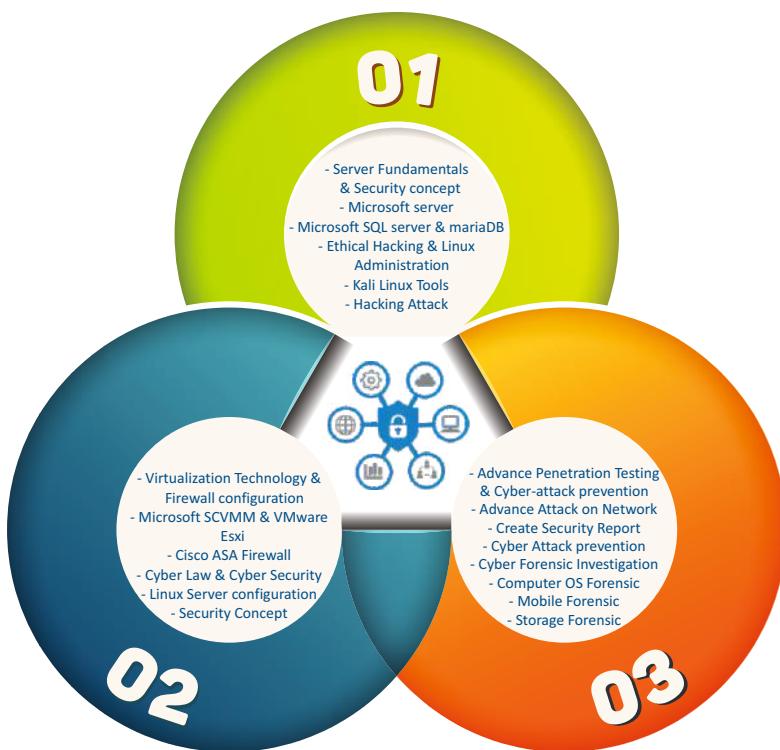
(2 YEARS MASTER PROGRAM)

**M.Sc. IT** in Network Security is a specialization degree offered by Gujarat University. The programme has been designed with the help of industry experts to guide and groom students for the competitive and dynamic new-age technology sector. The curriculum has been tailored in a way that includes both theory and practical, application-oriented learning. The course objective is to provide students with an in-depth understanding of all concepts and fundamentals of information security.

DURATION: 2 YEAR (4 SEMESTER)

LAST SEMESTER INTERNSHIP

The course includes all the important aspects of securing network infrastructure with all the necessary topics covered. At the end of the programme Student will be able to understand below technology:



Cybersecurity Market size is expected to reach \$6.2 billion by 2028, rising at a market growth of 19.9% CAGR.

Global \$9+ Bn Web Application Firewall Market is Expected to Grow at a CAGR of over 16.5% During 2022-2028 | Vantage Market Research



# MOBILE APPLICATIONS & UI DEVELOPMENT



(2 YEARS MASTER PROGRAM)



The advent of internet technology in the mid-90s brought a major transformation in the world. Its birth gave raise to new technologies and IT industry expanded in scale like never before. The progress achieved in electronics and telecommunication industry made mobiles available to all. The developments in internet technology and the smart phone industry have given raise to many new sectors which are supporting business organisations and have a huge market of their own. Mobile application and web technology are two of these sectors that have seen phenomenal growth due to the technological advancements. The industry today requires professionals who have specialised knowledge in these areas and can take up responsibilities to drive growth. The M.Sc. IT programme with Mobile Application as specialisation offered by Gujarat University is designed to meet the knowledge and skill requirement of the industry.

**DURATION:** 2 YEAR (4 SEMESTER)  
**LAST SEMESTER INTERNSHIP**

**M.Sc. IT** programme ensures that the students are trained in core areas of computer science with specialised focus on mobile technology. The programme comprises of vital subjects and practical labs which can help students be successful.



# ANIMATION & VFX

(2 YEARS MASTER PROGRAM)



The new-age M.Sc. IT in Animation & VFX is an advanced PG programme offered by Gujarat University. The programme has been designed with inputs by industry experts to groom students for the competitive and fast-growing technology field of animation. The curriculum has been prepared with industry requirements in mind and it emphasises practical, application-oriented learning. The animation programme is a comprehensive package that teaches the complete Animation process from "script to screen". The programme is tailored to hone the conceptual, visualization and craft skills of the students through theory and Practical. This program includes pre-production, Graphics, 2D Animation, 3D Animation, 3D Modling, Lighting and Rendering, Camera walk through, Competitions, Audio Video Editing & VFX.

DURATION : 2 YEAR (4 SEMESTER)  
LAST SEMESTER INTERNSHIP

## THE PROGRAMME HELPS STUDENTS TO:

1  
MASTER THE ART OF  
ANIMATION & FILM MAKING

2  
HONE CRAFT SKILLS

3  
HELP FOSTER CREATIVE  
THINKING AND IDEATION

4  
INculcate the habits of  
EXPLORATION &  
EXPERIMENTATION



*"Believe in your character, Animate with Sincerity"*

# PLACEMENT COMPANY LIST

- ❑ Godrej Info Tech
- ❑ Hitachi Systems
- ❑ Chintech Systems
- ❑ Bitscape Infotech
- ❑ State Cyber Crime Cell ,CID Crime
- ❑ Advantmed LLP
- ❑ Net logic Solutions
- ❑ AppsTech Solution
- ❑ Mangalam Information Technologies Pvt. Ltd
- ❑ ITCG Solutions Pvt. Ltd.
- ❑ BISAG-N
- ❑ AddWeb Solution
- ❑ DevIT Solutions Pvt. Ltd.
- ❑ VOLANSYS technology PVT . LTD
- ❑ Master solutions Pvt. Ltd
- ❑ Tata Consulting Engineers
- ❑ Dentaweb Services
- ❑ Cygnet InfoTech Pvt Ltd.
- ❑ inforpercept Consulting Pvt Ltd.
- ❑ eClinicalWorks India Pvt Ltd
- ❑ Kirti telnet Pvt Ltd
- ❑ Physical Research Laboratory
- ❑ Yudiz Solutions Pvt. Ltd.
- ❑ Agile Infoways Pvt. Ltd.
- ❑ Greencloud Isoft Pvt. Ltd.
- ❑ Maven Insoft Pvt. Ltd.
- ❑ BSP Technologies
- ❑ Wizzotech
- ❑ Webmob Technologies
- ❑ Unmathced Solutions Pvt. Ltd.
- ❑ Xeme IT Solutions
- ❑ Space O Infoweb Pvt. Ltd.
- ❑ Infinium Solutions
- ❑ Radix Web Technology
- ❑ Data First
- ❑ Elision Technology
- ❑ Silver Touch Technologies Limited
- ❑ Alok Computers
- ❑ Sophos Tech Pvt Ltd
- ❑ Electromech Corporation
- ❑ Bio Max Pvt Ltd.
- ❑ Aforeserve Pvt Ltd.
- ❑ Shalby Limited
- ❑ AKS Communication
- ❑ Beekay Infonet
- ❑ Echonovate IT Solutions PVT. LTD.
- ❑ Bigtale PVT. LTD.
- ❑ Lets Nurture Infotech Pvt Ltd
- ❑ Aaraark Studio
- ❑ Aark Infosoft Pvt Ltd
- ❑ Brainvire Infotech Pvt Ltd
- ❑ Simform Software LLP
- ❑ Syndell Technologies Pvt Ltd
- ❑ Philocalist Studio
- ❑ Hyperlink Infosystem Pvt Ltd
- ❑ The One Technologies
- ❑ Solution Analysts Pvt Ltd
- ❑ Groovy Web LLP
- ❑ Weetech Solution Pvt Ltd
- ❑ Intelivita
- ❑ Kaizen Infocomm Pvt. Ltd.
- ❑ Macdroid Solution Pvt. Ltd.
- ❑ Novity Technologies
- ❑ Agilcube Technologies Pvt. Ltd.
- ❑ Hi Fi Design Institute
- ❑ Addon Solutions Pvt. Ltd.
- ❑ Maxgen Technologies Pvt. Ltd.
- ❑ I-Link Infosoft
- ❑ Sophoes Technologies Pvt. Ltd.
- ❑ Yudiz Solutions Pvt. Ltd.
- ❑ Theta Technologies
- ❑ Bypeople Technologies
- ❑ Micro Vision



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