GUJARAT UNIVERSITY
DEPARTMENT OF ANIMATION
IT-IMS & MOBILE APPLICATION

success

5 YEARS INTEGRATED (B.SC + M.SC) IT

- **DATA MANAGEMENT & VISUAL INSIGHT**
- **GAME DESIGN & DEVELOPMENT**
- **ARCHITECTURE & NETWORK SECURITY**
- **CLOUD & APPLICATION DEVELOPMENT**
- **FINTECH (IT IN FINANCE)**

Achievements has no value, if you leave behind the people to celebrate with

In 1949, the University was established under the Gujarat UniversityAct.

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 institution

24 approved institutions

More than 2.75 lakh students

235 collages

34 Post-Graduate University Departmets

221 P. G. Centers

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 Lalbhai 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 two 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 like IT Infrastructure Management Services (IMS), Mobile Application Development, Cloud Technology, Information Security, Graphic Design & Animation are prepared by industry professionals. With a choice of these five 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 750 + students have pass out from the department in last 6 years and placed in the prominent organizations at key positions. In simple terms, we are all about education that is ready future-ready and indutry-ready.

DATA MANAGEMENT & VISUAL INSIGHT

INTRODUCTION

Now these days every businesses and personal requirements needs move to smarter analytics. Now every decision either it is personal or businesses are based on prediction and act through real time data analysis , our senses and respond can be fail some time but prediction based on the data never lies and fail. You can rule the businesses and company if you have data analytics sense.

This 5 Years integrated program is the best and worldwide unique combination of essential elements of Web site design , Web application Development , Manage and Analyze the data generated through Web Application , Reporting and Visualizing the Data from various source , Predicting and prescribing the based on analytical data along with Data Analytics integration with ERP.

ERP systems have been evolving over the years and Artificial Intelligence (AI) has played a crucial role in it. The integration of ERP with AI will not only change the way the system processes data but also how users interact with it.

Artificial Intelligence has been a constantly growing trend since the past few years, making its presence felt in almost every industry. This 5 Yrs. Integrated program leads the new trends of Web Site , Web Application and ERP Development integrating : Cross platform enablement | Big Data Storage Management Artificial Intelligence Integration | Integration of Impactful Data Analytics and useful Insights Integration of Real Time Data Access Customized & Personalized Service integration

AI in ERP system helps perform tasks that require intelligence. It mimics human intelligence to create systems that better understand its users. AI features built into ERP helps automate tasks, provides data insights, and creates better user experiences.

Analysta have predicted around 11 million job opening in data science by 2026 in India alone. A healthy overall adoption rate of nearly 74.5% of analytics & data science.

COURSE HIGHLIGHTS
Real Time Data Analytics & Data Science Benefits

- Computer Fundamentals & Emerging Technology
- Website Designing
- Data Management & Relational Database Modelling
- IT Application
- Database Management Using SQL
- User Interface Designing
- Web Application Programming
- Big Data Hadoop- Ecosystem

- Hadoop Programming & Analytics Tools
- Data Analytics Programming Language
- Statistical Analysis
- Business Analytics
- Visual Insight of Data - Exploring Data Graphically
- Big Data Engineering
- Machine Learning
- Deep Learning
- Advanced Artificial Intelligence

JOB PROFILE

- AI based Website Designer
- Analytical Based Web Application Developer
- MERN- Mongo-Extract-React-Nodejs Developer
- Artificial Intelligence based Application Developer
- Data Analyst,
- Business Analyst
- SQL Analyst
- Python Developer

- Odoo Developer
- Web Analytics Developer
- Big Data Engineer
- Business Data Visualizer
- Data Scientist
- AI – Artificial Intelligence Developer
- ML – Machine Learning Engineer
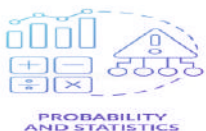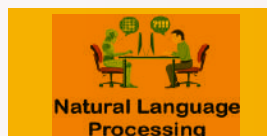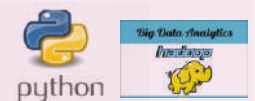
GAME DESIGN & DEVELOPMENT

INTRODUCTION

Build a career in Gaming Industry with the most comprehensive master's degree program in Game Designing & Development. Game Designing & Development is a programme designed for 12th students that helps learners build design and coding skills required to advance their career as a Game Designer or 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 Character modelling, Game Coding, Character animation, FX & Simulation and Storytelling. The following table highlights some of the important modules of our course.

COURSE HIGHLIGHTS

- Evolution of Games
- Art of Story Development
- Art of Gaming Characters
- 3d Painting
- Programming Language
- Weapon Design & Development
- Vehicle Design & Development
- Art of Environment Studies & Developments
- Advance Programming Language

- Game Engines
- Creative Skill of Rigging
- Motion Arts
- Game Language
- Music & Sound Creation
- Game Creation
- Virtual Reality
- Motion Graphics
- Visual Effects
- AR/VR

- Art of Communications
- Operating Systems
- Data Management
- Data Organizations
- Hard Copy Designing
- Video Manipulation
- Acting
- Face Movement's Studies
- Lips Movement Studies
- Case Studies

JOB PROFILE

- Game Concept Artist
- Junior Game Designer
- Level Designer
- Lead Designer
- Content Designer
- Creative Director
- User Interface Designer
- Story Writer
- Sound Designer

- Game Developer
- Game Animator
- Game Audio Engineer
- Game Designer
- Game Programmer
- Creative Game Director
- Game Artist
- QA Game Tester
- Game System Designer
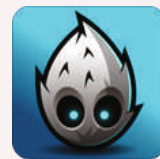
ARCHITECTURE & NETWORK SECURITY

INTRODUCTION

Network Security is the protection of computer systems and networks from attack by malicious actors that may result in unauthorized information disclosure, theft of, or damage to hardware, software, or data, as well as from the disruption or misdirection of the services they provide. In this program students will get the practical knowledge of IT infrastructure and security. Students will able to configure, maintain and secure the IT devices as per the industry requirements. Nowadays security is the main concern of any growing IT organization so that they require the candidates with that knowledge of security as well as the infrastructure. The course objective is to provide students with an in-depth understanding of all concepts of IT infrastructure such as networking, servers, virtualization, cloud computing and IT infrastructure security so that students can make bright career in IT industry.

SECURITY POLICIES

SECURE CULTURE

INCIDENT RESPONSE

SECURITY CONTROLS

THREAT ASSESSMENT

MANAGED SECURITY

BUSINESS MODEL

8 STEP PLAN FOR A SECURE NETWORK

MAINTAIN SECURITY

COURSE HIGHLIGHTS

- Computer Fundamentals
- OS Fundamentals
- Enterprise Network Designing
- Server Operating Systems
- Linux
- Virtualization Principles
- S2L
- Threat Management

- Network Security
- Ethical Hacking
- Penetration Testing
- IT Infrastructure Design
- Cyber Laws
- Cyber Security
- Forensic Investigation

- Linux Server
- Linux Server Security
- Virtualization
- AWS
- Azure Cloud
- Cisco Technology
- Malware Analysis

JOB PROFILE

- Network Engineer
- Server Engineer
- Firewall Administrator
- L2 Engineer
- Linux Security Administrator
- Network Security Engineer
- Security Analyst
- Cyber Security Expert
- Cloud Security Expert

- Security Operator
- Network Defense Engineer
- Cyber Forensic Investigator
- Server Administrator
- Virtualization Administrator
- Desktop Support Engineer
- L1 Engineer
- L2 Engineer
- Technical Team Leader

C|EH
Certified Ethical Hacking

C|HFI

LPT LICENSED PENETRATION TESTER
MASTER

KALI LINUX

PowerShell

PROGRAMMING

Office 365

Microsoft Hyper-V

INTRODUCTION

DevOps is a set of practices that combines software development and IT operations. It aims to shorten the systems development life cycle and provide continuous delivery with high software quality. This Master's Program will prepare students for a career in DevOps, students will learn operational tasks as well as development so that they bridge the gap between software developers and operations. Students will become an expert in the software fundamentals, Linux, Cloud technologies, IT infrastructure, development technologies like (.net, Java, python, React Native, etc.), principles of continuous development and deployment, automation, IT service agility, using DevOps tools such as Git, Docker, Jenkins and more.
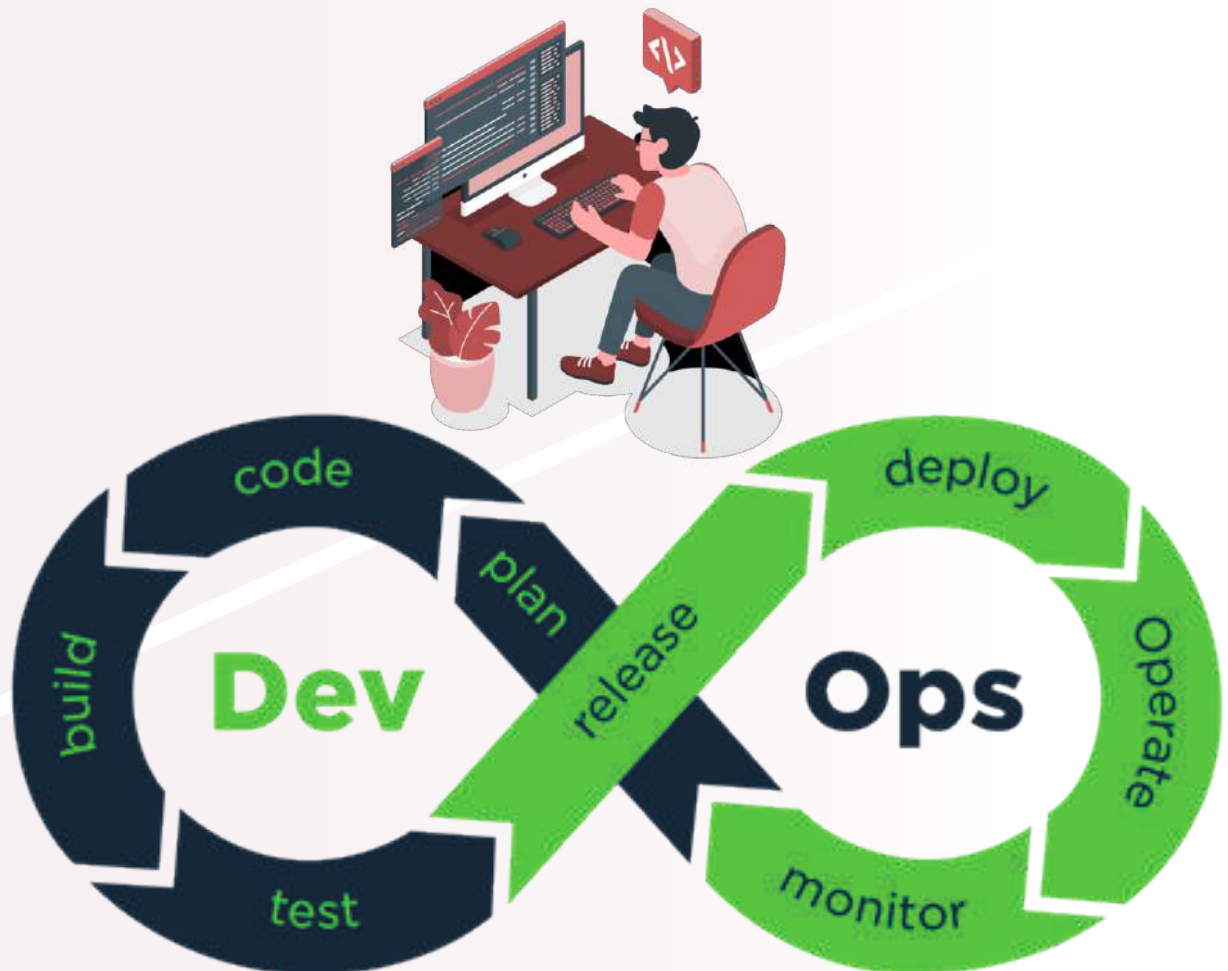
COURSE HIGHLIGHTS

- Hardware
- Networking
- Linux
- Version Control
- Cloud Computing
- Server Administration
- Server Configuration
- Scripting Language – Bash Shell Scripting, JavaScript
- C, C++, HTML, CSS

- Programming Technologies – .Net, Java, React Native, Python
- Mobile App Development
- AI & ML
- Configuration Management CI/CD
- Automation
- Containers
- Docker Swarm
- Ansible for Network Automation
- S2L, NO2SL

- Application Testing Tools
- Linux Server
- Linux Server Security
- Virtualization
- AWS
- Azure Cloud
- Cisco Technology
- Kubernetes Administration

JOB PROFILE

- Server Administrator
- System Engineer
- Cloud Engineer
- DevOps Engineer
- Linux Security Administrator
- Kubernetes Administrator
- Build Engineer
- DevOps Software Developer
- Automation Architect
- Senior App Developer

- Software Developer
- DevOps Software Engineer
- Cloud administrator
- Technical manager
- Operation Manager-Technical
- Server administrator
- Virtualization administrator
- Desktop support Engineer
- L1 Engineer
- L2 Engineer
- Technical Team Leader

FINTECH (IT IN FINANCE)

INTRODUCTION

Do You wish to become FinTech Driven Web Application Developer, Artificial Intelligence based Application Developer, Financial Analyst, Business Analyst, Technical Analyst, Investment Bankers, Data Scientist, Stock Trading Analyst, Blockchain Developer in DeFi and DApp, Quantitative Analyst then FinTech is the right choice for you or if you wish to start your own startup – FinTech presents opportunities for entrepreneurs with innovative solutions.

Now skillset for looking the people for Finance and Banking sector is entirely different what it had before. Now it is mandatory to have Technology understanding and development knowledge skillset for getting the job in Finance and Banking Sector and that's the reason new terms have been invented that is called FinTech (which means Technology adoption in Finance, it is called a blend of 'finance' and 'technology') is now become very popular now these days and every industry is looking the young champ having these skillset.

Do you know Now Finance Sector adopting Technology innovation and its adoption for its operation and customer services is all time high. That's the reason career prospects and opportunity is highly in demand for FinTech People who knows technology implementation in Finance sectors and Banking Sectors. As per Economics Times Report Fintech is a great market segment right now and demand often exceeds the current, available qualified applicants.

FinTech = Developing Financial & Banking Digital Application & Analyzing Financial Data Banking Data and Trading Data using Technologies along with Security of Data.
.

FinTech Market is expecting a 300% increase in the availble number of fintech jobs in the market over the next 5 years, as per the report of **Freshworld.com**

COURSE HIGHLIGHTS

- Financial Management
- Management Accounting
- Capital Market Operations
- Computer Applications in Finance & Business & Banking
- IT Programming
- Entrepreneurial Finance
- User Interface Design & Development
- Front End Application Development
- Backend Application Development
- Database Management using MongoDB

- Financial Technical Analysis
- Financial Application Development
- Financial Analytics using Python
- Financial & Accounting Reporting & Analysis
- Security Analysis & Portfolio Management
- FinTech in Financial Services
- Financial Data Visualization
- Machine Learning & AI in Finance
- Digital Transformation
- Fintech: Block Chain, Cryptocurrencies & Smart Contracts

JOB PROFILE

- User Interface Designer
- Web application Developer
- FinTech Analyst
- FinTech Consultant
- Banking Operation Officer
- Data Analyst
- Investment Manager
- Financial Planner
- Banking & Credit Data Analyst

- Web Analytics Developer
- Data Visualizer
- Artificial Intelligence Developer
- Fundamentals & Technical Analyst
- Data Scientist
- Algo Trader
- Blockchain Developer
- Web 3.0 Developer
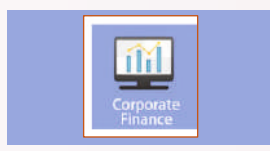
OUR PROMINENT RECRUITERS

- 4C Consulting Private Ltd
- Xomic Infotech Pvt. Ltd.
- Hyperlink InfoSystem
- Silver Touch Technologies
- Cilans System.
- Netpair Infotech Pvt Ltd
- eleoRex Technologies.
- Bitscape Infotech Private Limited
- RiverEdge Analytics Pvt. Ltd.
- Theta Technologies
- Infraveo Technologies
- Echonovate It Solutions Pvt. Ltd.
- Devoted Infotech Pvt Ltd
- White Canvas
- Web Chanakya
- Finbyz Tech Pvt Ltd
- eClinical Works
- Panamax Infotech Ltd.
- IAS Toppers
- NetLogic Solutions
- Intellimedia Netoworks
- Sandcup Design Studio
- Panther Studio
- Morphic Studio
- Microlink Solutions Pvt. Ltd.
- iValue Info Solutions Pvt. Ltd.
- iCreative Technologies
- N10 Technosoft Pvt. Ltd.
- Techmonarch Infocom LLP
- Brexa Quants LLP
- Brainvire
- Flamebirds Studio
- Village Talkies
- Squadron Technology
- Tatvic Analytics
- TechnoDoc Solutions
- WebEarl Technologies Pvt Ltd.
- Intorque

- Totality Corp
- Naapbooks Limited
- Milestone Inc.
- Beyondata Solutions Pvt. Ltd.
- Incscale Technologies Pvt. Ltd.
- Tata Consultancy Services
- Inferenz
- Elsner Technologies Pvt. Ltd.
- Moon Technolabs Pvt. Ltd.
- M M Designer
- Augmented TechLabs
- Hexa Coder
- Godrej Info Tech
- Hitachi Systems
- Chintech Systems
- State Cyber Crime Cell, CID Crime
- Advantmed LLP
- DevIT Solutions Pvt. Ltd.
- Volansys Technology Pvt. Ltd.
- Tata Consulting Engineers
- Dentaweb Services
- Cygnet InfoTech Pvt. Ltd.
- Radix Web Technology
- Incscale Technologies Pvt. Ltd.
- Alluvium IoT Solutions Pvt. Ltd.
- Sophos Tech Pvt. Ltd.
- Beekay Infonet
- Shalby Limited
- Aaraark Studio
- Brainvire Infotech Pvt. Ltd.
- Syndell Technologies Pvt. Ltd.
- Philocalist Studio
- The One Technologies
- Solutions Enterprise Pvt. Ltd.
- Kaizen Infocomm Pvt. Ltd.
- Hi Fi Design Institute
- Bypeople Technologies
- Eventus TechSol Pvt. Ltd
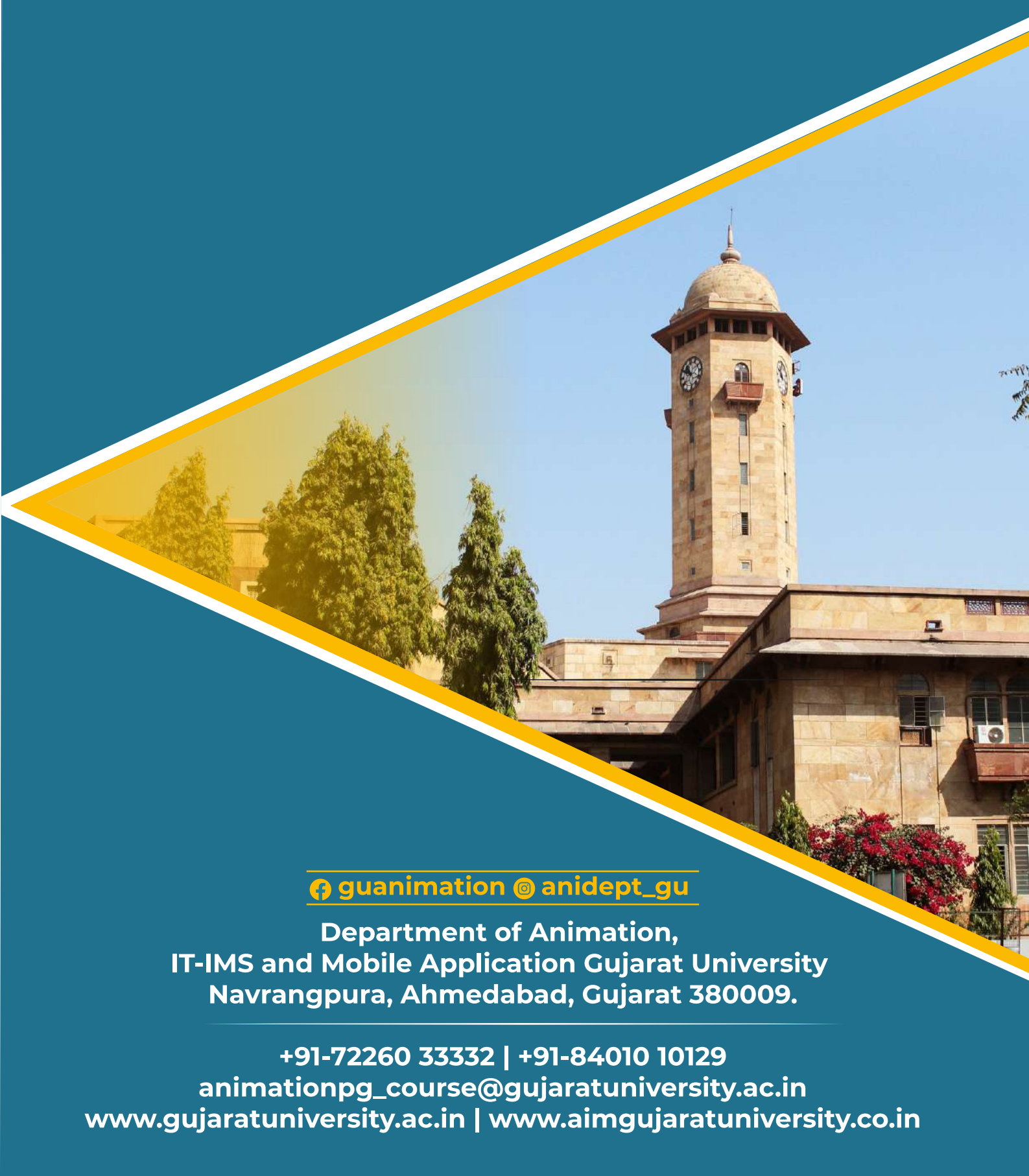
guanimation **anidept_gu**

**Department of Animation,
IT-IMS and Mobile Application Gujarat University
Navrangpura, Ahmedabad, Gujarat 380009.**

**+91-72260 33332 | +91-84010 10129
animationpg_course@gujaratuniversity.ac.in
www.gujaratuniversity.ac.in | www.aimgujaratuniversity.co.in**