



JG UNIVERSITY

EXCELLENCE BY CHOICE

SCHOOL OF SCIENCE & TECHNOLOGY



success

**5 YEARS INTEGRATED
(B.Sc. + M.Sc.) IT
SPECIALIZATION**



**DATA SCIENCE
& ANALYTICS**



**CLOUD & APPLICATION
DEVELOPMENT**



FINTECH (IT in FINANCE)



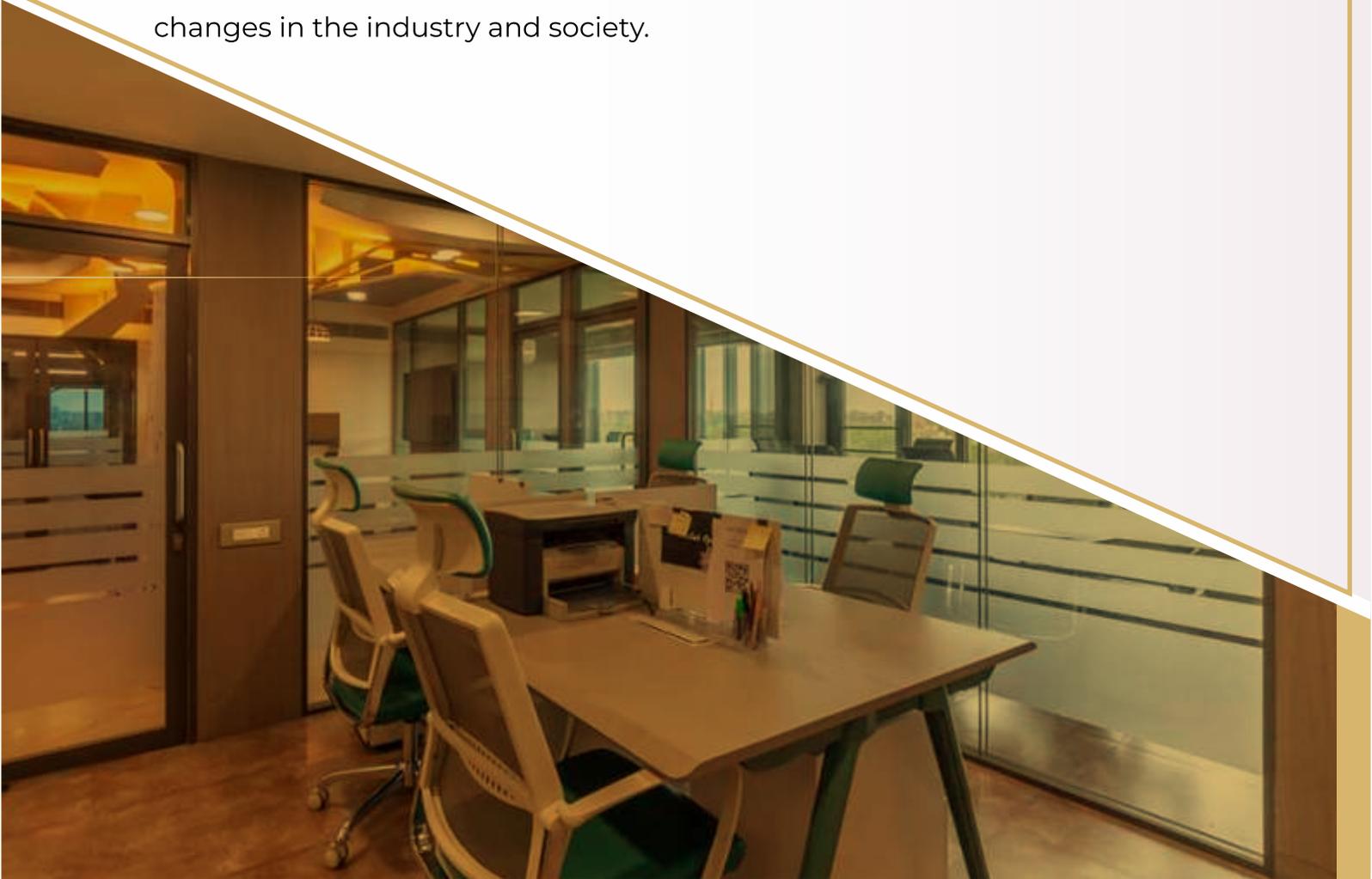
**Achievements
have no value, if you leave
behind the people to
celebrate with**

- 
- **National Education Policy (NEP) 2020 & UGC compliant programmes**
 - **Faculty members with industry experience and academic expertise**
 - **Collaboration with foreign universities for curriculum, delivery, and student exchange**
 - **Hands-on experience using industry Use-Cases and emerging technology**
 - **Full pay on-the-job training opportunities**
 - **Cross-cultural and cross-sectoral internship**
 - **Course-embedded Capstone projects**
 - **24*7 accessibility of facilities for students and faculty members**

ABOUT UNIVERSITY

At JG University, experiential and immersive learning is at the core. The programmes offered aim to prepare students to solve real-world problems using technology, creativity and innovation.

Our pedagogy is co-designed with industry stalwarts; the curriculum is focused on employability, enhancing soft & hard skills and exposure to real-life projects across various industries. The objective is to ensure that students are ready for tomorrow's workplace by creating Whole Brain Change Makers-technologically sound professionals, creative thinkers, and socially conscious citizens who will strive to lead changes in the industry and society.



DATA SCIENCE & ANALYTICS

INTRODUCTION

In the current landscape, both business and personal needs demand a shift towards more intelligent analytics. Today, decision-making is increasingly personalized, and businesses rely on predictive insights derived from real-time data analysis. While human intuition may falter at times, predictions based on data are consistently reliable and fail-safe. Possessing a keen sense of data analytics empowers individuals to navigate and influence the realms of businesses and companies effectively.

Smart decision-making is the key to success in a world driven by data. The fusion of Full Stack Development and Artificial Intelligence (AI) is the future, and our unique 5-year integrated programme empowers you to lead this revolution. Imagine crafting web applications that not only look sleek but also harness the power of AI for intelligent insights. Businesses and personal needs are evolving, and the demand for smarter analytics is higher than

ever. Every decision, whether personal or business-related, now relies on predictions derived from real-time data analysis. Your ability to navigate and analyze this data will set you apart in any industry.

With our programme, you won't just be a developer, you'll be a visionary equipped to drive decisions based on robust data analytics. Be the expert who designs websites and web applications and manages, analyzes, and visualizes data generated through these applications. Learn to predict and prescribe using cutting-edge Data Science algorithms and techniques, and integrate your analytics seamlessly with enterprise applications.



PROGRAMME HIGHLIGHTS

Real Time Data Analytics & Data Science Benefits

- Computer Fundamentals and Emerging Technology
- Trends in Artificial Intelligence- ChatGPT | Copilot
- Front End Designing – HTML5- CSS-JS | Angular | ReactJs
- Back End Development – Java | NodeJS
- Database Design & Development –
- SQL | MongoDB
- Big Data Hadoop- Ecosystem
- Hadoop Programming & Analytics tools
- Data Analytics Programming Language – Python & R
- Statistical Analysis
- Business Analytics- Agile & Scrum
- Visual Insight of Data - Exploring Data Graphically
- Big Data Engineering
- Machine Learning
- Cloud based Data Science Applications
- Deep Learning
- Advanced Artificial Intelligence
- NLP

JOB PROSPECTS

- 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



CLOUD & APPLICATION DEVELOPMENT

INTRODUCTION

Cloud & Software Development refers to a set of computer science activities dedicated to the process of creating, designing, deploying and supporting software.

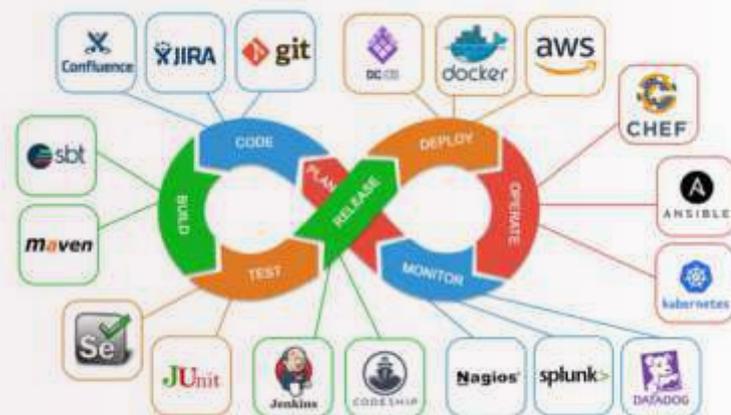
At JG University, we are reshaping technical education with specialized M.Sc. IT (5 years integrated) program that prepare students for the next generation IT industry.

The programme aims at empowering students take up industrial practices well as for research and real world problem solving. With this 5 year integrated degree the students will be qualified to build and maintain reliable software to address the demand of today's market with innovative and creative approach of problem solving.

The programme will prepare students for a career in Dev Ops, where 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 and IT infrastructure, development technologies like (.net, Java, python, React Native, etc.), principles of continuous development and deployment, automation, IT service agility, using Dev Ops tools such as Git, Docker, Jenkins and more.

Our comprehensive curriculum covers programming language, data structure, algorithms, UI-UX, web development, mobile app development, testing, project management skills and many more.



PROGRAMME 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 PROSPECTS

- 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

Are you aspiring to pursue a career as a finance-driven Web Application Developer, Artificial Intelligence Application Developer, Financial Analyst, Business Analyst, Technical Analyst, Investment Banker, Data Scientist, Stock Trading Analyst, Quantitative Analyst, or Blockchain Developer in DeFi and DApp? If so, FinTech is the ideal choice for you. Alternatively, if you dream of creating your own startup, FinTech offers opportunities for entrepreneurs with innovative solutions.

In the finance sector, having a strong

understanding of technology and development skills has become mandatory for securing jobs in Finance and Banking. This demand has given rise to the term FinTech, which has gained immense popularity. Industries across the board are actively seeking individuals with these skill sets, making it a crucial asset for young professionals.

Embark on a transformative journey with our 5-Year Integrated MSc. IT in FinTech programme – your direct gateway to the dynamic world of FinTech.

FinTech Market is expecting a 300% increase in the available number of fintech jobs in the market over the next 5 years - Teamlease

Link: <https://inc42.com/features/can-fintech-drive-bfsi-employment-in-the-post-pandemic-world/>

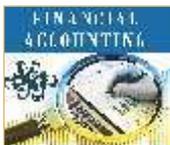


PROGRAMME HIGHLIGHTS

- FinTech – Fundamental Analysis
- Front End Designing – HTML5-CSS-JS
- Back End Development – Python Django
- Database Design & Development – SQL
- Entrepreneurial Finance
- Data Driven Analytics using Python
- Digital Banking & Payment Tech
- Information Security & Cloud Computing
- Investment Banking
- Data Visualization – PowerBI | Tableau
- Quantitative Finance
- Financial Technical Analysis – Candle Stick
- Chart | Index analysis
- Blockchain – Crypto currencies – Ethereum
- Artificial Intelligence in Finance Share
- Market | Banking
- Robotics Process Automation in FinTech | Banking

JOB PROSPECTS

- 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 Networks
- Sandcup Design Studio
- Panther Studio
- Morphic Studio
- Microlink Solutions Pvt. Ltd.
- iValue Info Solutions Pvt. Ltd.
- iCreative Technologies
- N10 Technosoft Pvt. Ltd.
- Techmonarch Infocomm 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

LIFE AT JG





JGU
UNIVERSITY
EXCELLENCE BY CHOICE

MAIN CAMPUS

 **ASIA Campus,**
Drive in Rd, Thaltej,
Ahmedabad-380054,
Gujarat, India

CITY CAMPUS

Vishwanath Northview,
University Road, Navrangpura,
Ahmedabad-380009
Gujarat, India.

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