

# B.Sc. Mathematics

## B.Sc. Mathematics (Hons. / By Research)

with specialization in

## Data Science



## A Promising Career Path of the 21<sup>st</sup> Century

- Course Eligibility: 50% marks in 10 + 2 with Mathematics
- Selection Criteria : Performance in the GLAET

**Govt. Scholarship  
for  
Eligible Candidates**

### About the Programme

With the continuous advances in technology, large quantities of data are being collected, stored, and efficiently managed, but to analyse them and discover hidden information, the foundation of Mathematics, Statistics, and Data Science is imperative. The Department of Mathematics at GLA University offers a Bachelor of Science (B.Sc.) degree in Mathematics of 3 years and a B.Sc. (Hons. /By Research) degree in Mathematics of 4 years with a specialization in Data Science. It is an interdisciplinary programme, an amalgamation of the fields of Mathematics and Data Science. It is designed especially to build up a strong foundation in Mathematics to enhance analytical and computational skills of the students.

## Salient Features

- 1. Interdisciplinary Approach:** This course is designed with the flexibility of students' learning choices which include pure as well as applied mathematics and lays the foundation of Data Science subjects.
- 2. Strong Mathematical and Statistical Foundation:** The programme includes advanced topics like Algebra and Mathematical Methods, Calculus, Operations Research, Discrete Mathematics, concepts of Probability theory, and Multivariate Statistics, which are essential for Data Science.
- 3. Hands-on Learning with Real-life Based Applications:**
  - a. To emphasize practical, hands-on learning experiences and to provide opportunities to work with large datasets, analyze real-world problems, and develop data-driven solutions.
  - b. To enhance the programming and analyzing skills of the students, the programme offers a comprehensive learning of popular programming languages and software tools such as Python, R, and SQL.
- 4. Practical Projects and Internships:** Under this programme, students will have the opportunity to undertake practical projects and internships, allowing them to apply their knowledge in real-world scenarios. These experiences will enhance their practical skills, build their professional networks, and provide valuable industry exposure.

## Why to Choose this Programme??

The most potent resource of today's time is Data. Any industry of the 21st century is bound to adapt data science resources to thrive in the modern economy.

The global data science platform market is projected to grow from \$81.47 billion in 2022 to \$484.17 billion by 2029, at a CAGR of 29.0% in the forecast period.

(<https://www.fortunebusinessinsights.com/data-science-platform-market-107017>)

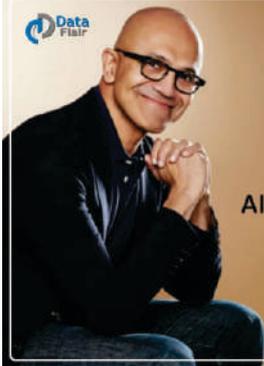
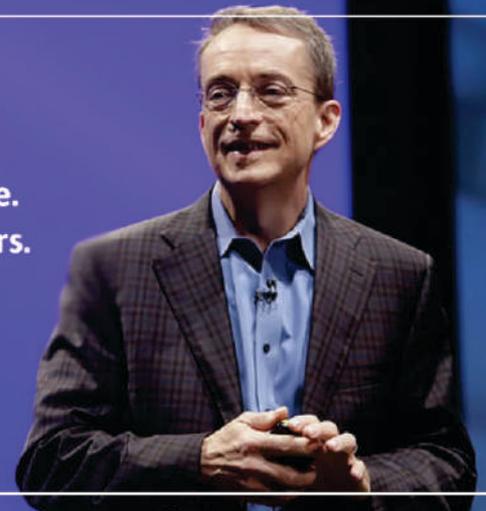


## Experts Say !!



**Data is the new science.  
Big Data holds the answers.**

- Pat Gelsinger  
Chief Executive Officer at VMware



**Everything is going to be  
connected to cloud and data...  
All of this will be mediated by software.**

- Satya Nadella  
Microsoft CEO

**"In God we trust,  
everybody else bring data to the table"  
- Narayana Murthy**



## INFRASTRUCTURAL FACILITIES



Python Programming Lab



Lecture Classroom



Tutorial Session

## ACADEMIC ACTIVITIES



Project Presentation



Industrial Visit



Farewell Function

## EXTRA & CO-CURRICULAR ACTIVITIES



Mathematics Day Celebration



Sports Competition



$\pi$  Maths Club Event

## Career and Job Opportunities

Data Analyst/Scientist

Statistical Analyst/Assistant

Computational Analyst

Mathematical Analyst/Modeller

Research Analyst/Scientist

Government Jobs

## Our Recruiters

Google



Adobe

accenture

Tech Mahindra

Infosys

Capgemini

EXL  
business process solutions

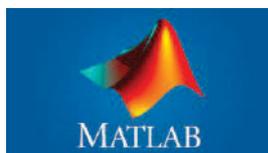
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## Programming Languages and Software Tools



python™



## DEPARTMENT OF MATHEMATICS

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# Data Science in NEWS

Home / India News / 'Data is the new oil, new gold,' says PM Modi in Houston  
**'Data is the new oil, new gold,' says PM Modi in Houston**

Hindustan Times, New Delhi | By [HT Correspondent](#)

Sep 23, 2019 01:44 AM IST

Addressing potential investors in the United States, PM Modi mentioned the cheap cost of mobile data in India and the increasing use of digital technology to set up start-ups, help economic transactions and interact with the government.



Prime Minister Narendra Modi was speaking at 'Howdy, Modi!'—the mega event of the Indian American community held at Houston city's NRG stadium on Sunday.(TEXAS INDIA FORUM.)

Prime Minister Narendra Modi on Sunday described data as the "new oil" and the "new gold" and said India had the potential to lead the world in the industrial revolution, which relied on big data analytics and digital technology to improve manufacturing.

**THE ECONOMIC TIMES** Industry  
Digital Edition | 07 June 2022 09:07 | Today's Paper

## Career opportunity high for Maths students in IT, finance

IT - Last updated: Aug 12, 2018 (4:43 PM IST)

**Synopsis**  
For students who take keen interest in Mathematics in school should be encouraged and nurtured as there is a huge demand and opportunity for them in IT and Finance sectors globally.

**IT/Finance:** Indian students who take keen interest in Mathematics in school should be encouraged and nurtured as there is a huge demand and opportunity for them in IT and Finance sectors globally, a Maths expert said.

**IT/Finance:** India's leading and several top Indian companies are looking for students and graduates in their Mathematics and besides it is a signpost for parents, school teachers and institutions to encourage and nurture students who are keen in pursuing Maths. Ravi Singh, Managing Director, Premier Institute of Business, Chennai, said in a report on IT/Finance sector.

There is a good demand for graduates in Mathematics for supply in very low and talented students who are up to the challenge as for Indian students have to find their way to the Mathematics, the expert further specified said.

Students from 30 top countries, 200 new and old profiles and categories in the report for India and overseas for premier Institute of Business, Chennai at the age of 28.

He said, he has always advised his own students from across of 20 states, 1000+ in Karnataka, Maharashtra, Kerala to provide counselling in students who want to pursue IT/Finance in Mathematics to encourage among others.

Test planning to decide how well IIT/Finance students will fare up the career in Maths-related, he said.

Students can make professional contribution to mother country, locally by his department of higher order computer jobs. These appeared in a PhD thesis, written under the direction of Professor Anand Vignani of Premier Institute and published in the journal of Mathematics.

## Future managers must have sound knowledge of data science, mathematics and statistics, say experts

Madras Management Association holds All India Management Students' Convention 2022 with the theme 'AI Shaping Today and the Future'

September 27, 2022 08:20 pm | Updated 08:20 pm IST - CHENNAI

THE HINDU BUREAU

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Future managers must have a good, sound knowledge of data science, mathematics and statistics, as the future of every industry would revolve around artificial intelligence, said speakers at a convention on artificial intelligence (AI).

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**Research (World) Rank 691**

