DIGITAL UNIVERSITY KERALA

Curating a responsible digital world


# School of Digital Sciences

## Admission 2024

Digital University Kerala | Technocity Campus Mangalapuram |
Thonnakkal P.O, Kerala 695317


# SCHOOL OF DIGITAL SCIENCES

*-Empowering the Future through AI applications in STEM Education*

## Vision

To provide the critical meeting ground for people to learn the subject, interact with world class experts, collaborations, organized and regulated access to federated data, information, and computational resources, for knowledge creation, dissemination and applications to facilitate world-class education and bleeding edge research in the field of digital sciences and thereby empowering the society with updated skills and knowledge.

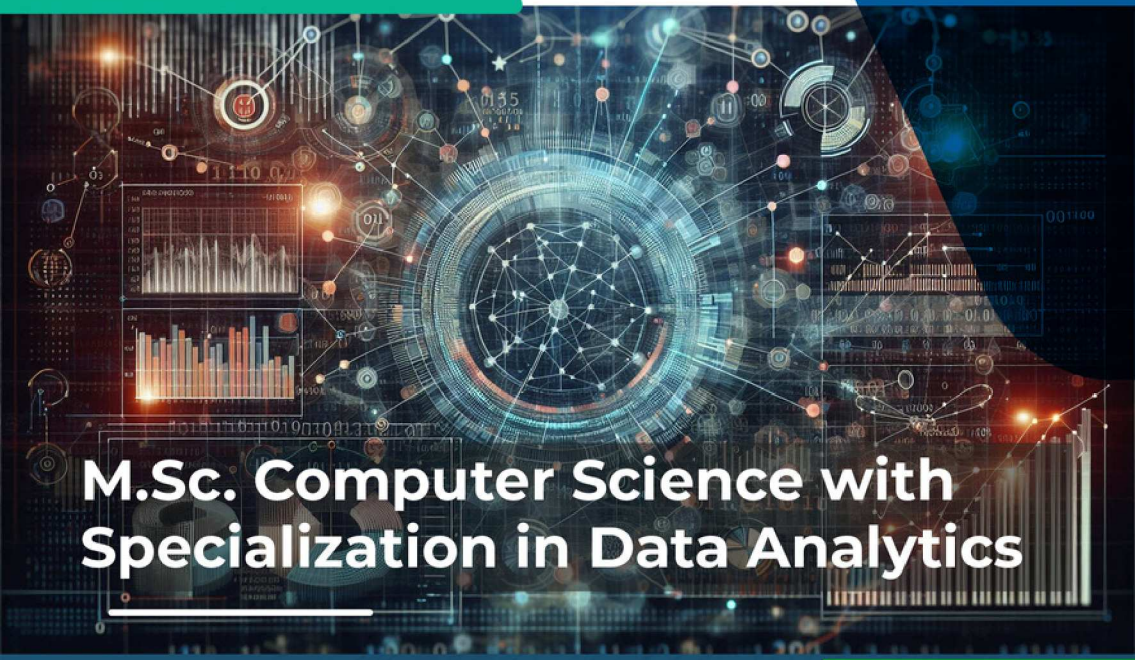
## Mission

To become an internationally reputed Advanced Center in the thematic areas of the school and to provide socially relevant services to the general public through the knowledge and skill acquired through learning, research and development.

# P.G. & Ph.D Programmes

*Explore the frontiers of data analytics and computational sciences with our comprehensive post graduate and Ph.D programs. Our esteemed faculty members provide unparalleled expertise and guidance to students pursuing the following programs.*

- **M.Sc.**
  Computer Science with Specialization in Data Analytics
- **M.Sc.**
  Data Analytics and BioAI
- **M.Sc.**
  Data Analytics and Computational Science
- **M.Sc.**
  Data Analytics and Geoinformatics
- **Ph.D in**
  Computational Neuroscience,
  Physics informed neural networks,
  Brain computer interface,
  Computational Chemistry,
  Computer aided molecular discovery

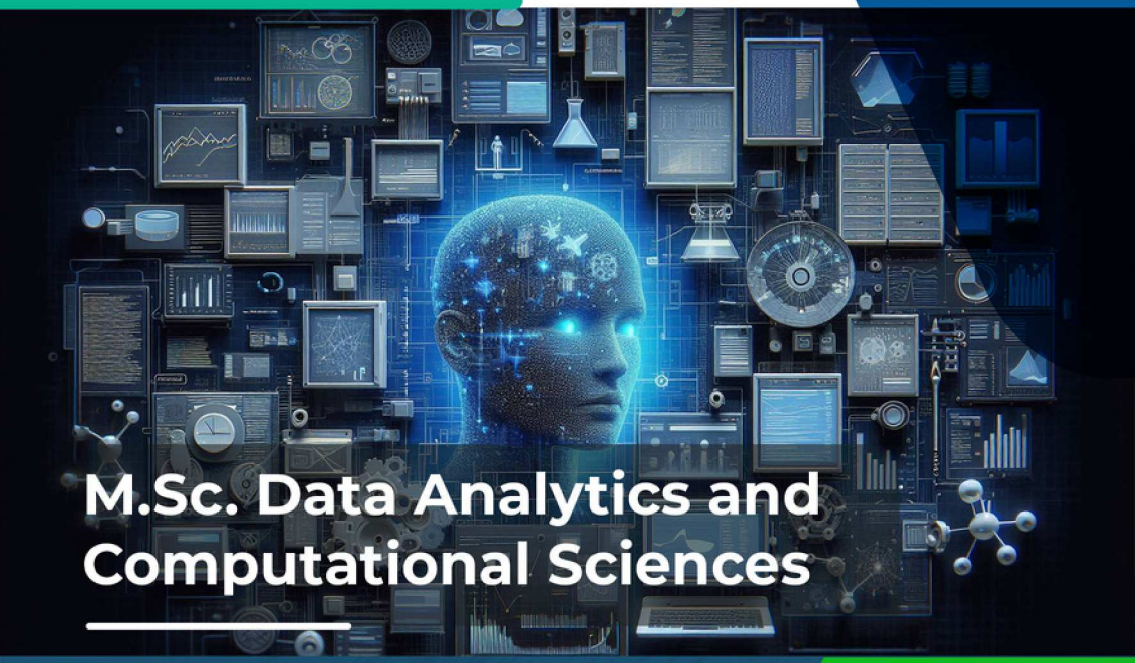


# M.Sc. Computer Science with Specialization in Data Analytics

**Regular full-time mode in Thiruvananthapuram.**
**SEATS : (Full Time Regular- 60 )**

## Introduction

Data analytics refers to the process of investigating datasets to make conclusions. Data Analytics is one of the emerging areas of the IT industry and can be applied across disciplines ranging from science, technology, business or even arts. Big Data Analytics is a phrase tossed recently to tackle sheer volume of data generated in the modern world. Data Science and Big Data Analytics combine statistical methods for inferring patterns from crude data; database technologies for storing and retrieval of data; intelligent technologies to extract knowledge and visualization for easy analysis and better understanding. Data analytics enables one to generate information and thereby knowledge from large quantities of incomprehensive data. The post graduate programme in data analytics is intended to offer hands-on training in data analytics, data mining and knowledge discovery methods using machine learning technologies and their application to practical problems.



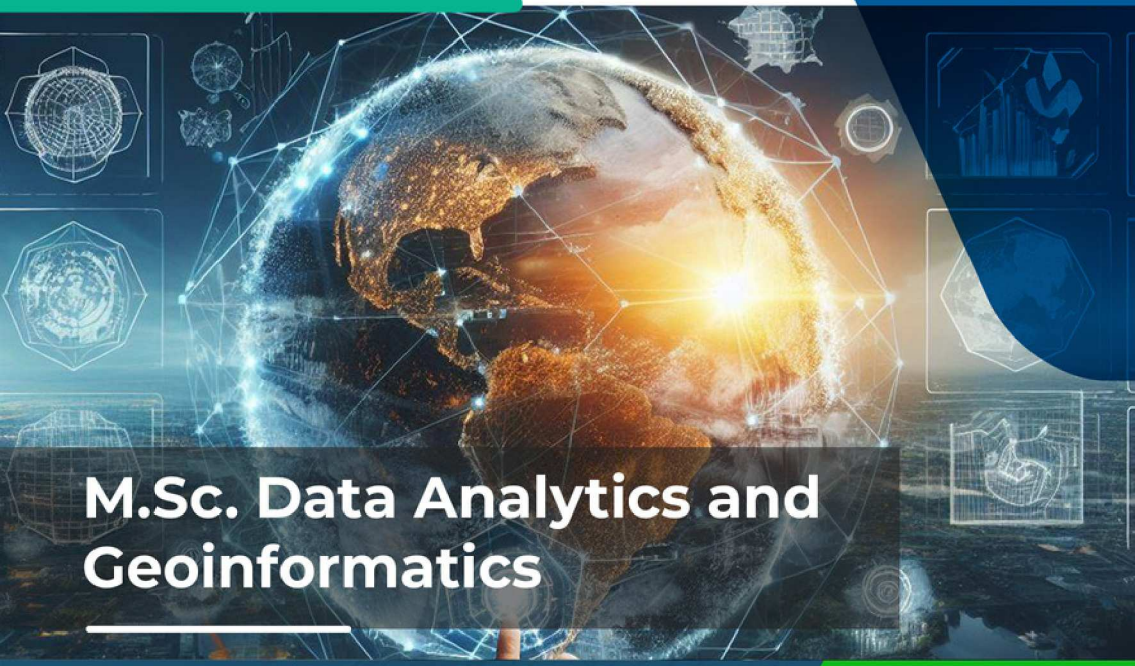
# M.Sc. Data Analytics and Computational Sciences

**Regular full-time mode in Thiruvananthapuram.**
**SEATS : (Full Time Regular- 60 )**

## Introduction

In Computational Science, data analytics plays a pivotal role in modelling complex phenomena, simulating experiments, and extracting meaningful insights from vast datasets, thereby advancing scientific understanding.

The program aims at developing quality human resources in computational science and with hands-on experience in machine learning and deep learning technologies to cater the needs of government, industry and scientific organizations in the subject area. The course will also provide necessary training to develop professionals and leaders of high calibre imbued with values of entrepreneurship, ethics and social responsibility.



# M.Sc. Data Analytics and Geoinformatics

**Regular full-time mode in Thiruvananthapuram.**
**SEATS : (Full Time Regular- 30 )**

## Introduction

Today, Geospatial Technology supports much larger scales and velocities of data, with faster computing and processing times than traditional silos and stand-alone workflows and the interoperable nature of open tools and common languages allows for a collaborative workflow among large communities to address global issues like Climate Change.

With the most comprehensive set of analytical methods and spatial algorithms, connect the seemingly disconnected data sources and discover hidden trends, perform predictive modelling, and gain a competitive advantage by using location as a connecting thread.

# M.Sc. Data Analytics and BioAI

**Regular full-time mode in Thiruvananthapuram.**
**SEATS : (Full Time Regular- 30 )**

## Introduction

Studying Data Analytics holds paramount importance across various disciplines in today's rapidly evolving world. The interdisciplinary nature of Data Analytics empowers professionals in diverse domains to optimize processes, enhance efficiency, and contribute to evidence-based decision-making, making it an indispensable skill set for those seeking to excel in their respective fields.

A comprehensive masters program equips you to

- Acquire skill in Computer Aided Drug Design
- Exposure to Healthcare Analytics
- Learn Genome Data Analysis & Precision Medicine
- Hands-on experience with Data Analytics, Machine Learning & Deep Learning

# Eligibility

- **MSc Computer Science with Specialization in Data Analytics**

  Any Science/Engineering graduate with Mathematics as one of the core or complementary subjects

  Admission to these course are based on the CUET-PG 2024 exam score or the All India Digital University Aptitude Test (DUAT).

  Students who have applied for CUET-PG in any test paper codes SCQP09, SCQP19, SCQP24, or SCQP27 can apply.

  Students who did not take the CUET-PG 2024 exam must take the DUAT-2024 on the test paper code DUAT02.

- **MSc in DATA ANALYTICS AND COMPUTATIONAL SCIENCE**

  Any Science/Engineering/Mathematics graduate with Mathematics/Statistics as one of the core or complementary subjects with aggregate 60% marks or above.

  Students who have applied for CUET-PG in any test paper codes SCQP09, SCQP19, SCQP24, or SCQP27 can apply.

Students who did not take the CUET-PG 2024 exam must take the DUAT-2024 on the test paper code DUAT02.

- **MSc in DATA ANALYTICS AND GEOINFORMATICS**

  BSc in Geology/Geography/Computer Science/IT/Environmental Science/Agricul tural Science OR BTech in Civil/Computer Engineering with 60% Marks or above.

  Students who have applied for CUET-PG in any test paper codes SCQP09, SCQP14, SCQP15, SCQP11, SCQP26, or SCQP27 can apply.

  Students who did not take the CUET-PG 2024 exam must take the DUAT-2024 on the test paper code DUAT06.

- **MSc in DATA ANALYTICS AND BIOAI**

  Any Science/Engineering graduate, including BSc in Botany/Zoology/Biosciences/ Microbiology/Biotechnology, BTech in Biomedical Engineering/BioTechnology, MBBS, with aggregate 60% marks or above.

  Students who have applied for CUET-PG in any test paper codes SCQP09 or SCQP17 can apply.

  Students who did not take the CUET-PG 2024 exam must take the DUAT-2024 on the test paper code DUAT05.

* Entry-level requirement is a minimum score of 60 percentage marks OR CPI/CGPA of 6.5 or above in 10 points in the qualifying degree. Rounding off of marks is not allowed. A candidate with CGPA less than 6.5 will also be eligible if the equivalent percentage for graduation is above 60% as per the respective university norms for conversion from CGPA to percentage. In such a case, the candidate will have to produce the official document or percentage equivalence certificate from the respective university showing CGPA to percentage conversion norms, at the time of admission. Students who have scored less than 60% in their graduation degree are not eligible for admission to the courses of Digital University Kerala. Candidates belonging to SC/ST and Persons with Disability categories are eligible for applying if they have minimum pass marks in the qualifying examination. SEBC candidates of Kerala State who are certified as belonging to non-creamy layer are eligible for 5% relaxation in the minimum required marks for qualifying examination, provided that the candidates have passed the examination.

# Curriculum overview

Duration of M.Sc program: 2 years

Tuition Fee for the Program: 2.05 Lakhs

**Curriculum:**

Total mandatory credits for the two-year program: 70

Additional credits beyond mandatory coursework and project: 10

# Our Recruiters

# Features of the PROGRAM

**Placement Assistance:** Assistance is provided for campus placement opportunities.

**Well-structured Industry Readiness Programs:** Programs designed to prepare students for the industry.

**Practical-Oriented Curriculum Design:** Curriculum focused on practical learning.

**Eminent Industrial Experts and Professors on the Board of Studies:** Industry experts and experienced professors are involved in curriculum development.

**Early Curriculum Updates Based on Board Suggestions:** The curriculum is updated promptly with input from the board to incorporate the latest technology.

**Coding Club for Skill Enhancement:** Club activities aimed at improving coding skills.

**Experienced Faculty with Industry and Government Projects:** Faculty members with experience in multiple projects from industries and government.

**Earn while Learn Program:** Opportunity to work with faculty members in live projects and earn.

**Support for Startup Ideas:** Assistance provided for developing startup ideas.

**Idea Validation and Product Design Camps:** Camps focused on validating ideas and designing products.

**Guidance for Participation in Various National Events:** Assistance for participating in Hackathons, Ideathons, and techfests.

**Student Mentorship Program:** Each student is assigned a faculty mentor to discuss concerns, monitor progress closely, and provide directions.

**Talks from CEOs and Professors Worldwide:** Opportunity to interact with CEOs, Professionals, and academicians across the world.

**Capability to Design and Develop Digital Solutions:** Upon programe completion, students will be capable of independently designing and developing digital solutions.

# Infrastructure and Other Facilities

01 Knowledge Centre and Cisco thingQbator

02 Computer Labs and High-End Computing Facility for AI/ML simulation

03 Hostel and Medical Facility

04 Air Conditioned Classrooms and Fully Connected Campus

05 Arts and Sports Facility

06 Digital Learning Platforms and Resources

## Admission Helpdesk

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admission-phd@duk.ac.in