



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

You Can Be
The Next **Game
Changer**

PROSPECTUS 2024-25

MSc - Data Science



**INSTITUTION
OF EMINENCE**
by Government of India



NAAC A++
Accredited



**online
MANIPAL**



**100%
Online**

Manipal Academy of Higher Education (MAHE) Rankings

<p>ACCREDITATION</p>  <p>INSTITUTION OF EMINENCE by Government of India</p> <p>Among India's Few Universities Granted IOE Status</p>	<p>ACCREDITATION</p>  <p>Achieved Highest Accreditation Grade by NAAC</p>	<p>RANK 4</p>  <p>Amongst India's Top 5 Universities in 2024</p>	<p>RANK 37</p>  <p>Amongst South Asia's Top 40 Universities (2024)</p>	<p>RANK 175</p>  <p>Amongst Top Universities Under Young University Rankings (2024)</p>	<p>RANK 52</p>  <p>Amongst World's Top Universities for Quality Education (2024)</p>
<p>RANK 1</p>  <p>India's Top Deemed Universities by ICARE (2023)</p>	<p>RANK 2</p>  <p>Amongst India's Top 5 Private Universities (2024)</p>	<p>RANK 5</p>  <p>Amongst India's Emerging Multidisciplinary Universities (2024)</p>	<p>RANKED 201-250</p>  <p>#201-250 in Asia University Rankings (2024)</p>	<p>RANK 2</p>  <p>India's Top Private Universities in 2022-23</p>	<p>These rankings validate our academic model, pedagogy, and educational quality while establishing academic credibility and certifying a graduate's credentials to employers.</p>

Give an individual a professional education and you have given him a lifestyle.

Padma Shri awardee
Dr. T M A Pai
Founder
Manipal Education & Medical Group

VISIONARY

PHILANTHROPIST

PHYSICIAN

EDUCATIONIST

BANKER



About Manipal Academy of Higher Education

Started in 1953 with Kasturba Medical College, **Manipal Academy of Higher Education (MAHE)** is one of India's leading academic and research institutions. It is a **globally engaged institution** with active partnership with more than **250 leading universities** around the globe. And it enjoys the status of '**Institution of Eminence**' granted by the **Ministry of Education, Government of India**. It is amongst the handful of private institutions in India to have received this prestigious recognition, further accentuating its status as a world-class institution for higher education.

MAHE now offers online higher education programs to students. MAHE's online degrees and certificates are **UGC-entitled and NAAC A++ accredited** and on par with on-campus programs. Government agencies, corporate organizations, and educational institutions widely recognise **MAHE's online degrees and certificates for jobs and higher education.**

Flagship institutions of MAHE:

Kasturba Medical College (KMC) | Manipal Institute of Technology (MIT)
Welcomgroup Graduate School of Hotel Administration | T.A. Pai Management Institute



Change is constant! The unprecedented Covid-19 pandemic has changed the way we did curriculum transaction. Today, online education has become an integral part of the mainstream education.

MAHE takes pride in offering quality online programmes to aspirants of higher education and join hands with Government's vision to increase Gross Enrollment Ratio (GER) in higher education.

Dr. H.S. Ballal
Pro-chancellor
Manipal Academy of Higher Education (MAHE)



In line with the Sustainable Development Goals, MAHE is committed to providing inclusive and equitable quality online education and promoting lifelong learning opportunities for all.

Lt. Gen. (Dr.) M.D. Venkatesh
Vice-chancellor
Manipal Academy of Higher Education (MAHE)



MAHE's online program are industry-oriented and provide continuous learning opportunity for professionals to upgrade their skills & qualification.

Dr. P. Giridhar Kini
Registrar,
Manipal Academy of Higher Education (MAHE)



MAHE online program are designed using Learning Experience Design principles to ensure the desired learning outcomes. Industry oriented curriculum provides an opportunity for learners to learn the required skills.

Dr. Manojkumar Nagasampige
Director
Directorate of Online Education (DOE)
Manipal Academy of Higher Education (MAHE)

**Learning is creation,
not consumption.
Knowledge is not
something a learner
absorbs, but something
a learner creates.**

Source: George Couros



A university of your choice



World class education

- Access UGC-entitled online postgraduate degrees from a NAAC A++ accredited university with 70+ years of educational excellence. Learn from expert faculty who share real-world experiences.



Industry-aligned curriculum

- Expand your domain knowledge through our modern curriculum that is aligned with industry trends. Attend live classes and access recorded lectures anytime, anywhere.



Placement assistance

- Become a job-ready professional through placement assistance which includes resume building, mock interviews, skill assessments, and more.



Exhaustive content & resources

- Access an exhaustive e-library with e-books, e-databases, journals, and more. Get free access to paid content on Coursera.

A university of your choice



Global networking opportunities

- Expand your professional networking and gain industry insights by interacting with a diverse peer group, faculty, and other industry experts.



Attractive scholarships

- Gain access to exclusive scholarships designed for defense personnel, government employees, differently abled people & meritorious students.



Prestigious Manipal alumni status

- Benefit from 70+ years of Manipal legacy and become a member of the reputed alumni network.

Program delivery

Our online programs are delivered through a state-of-the-art technology platform.



Live, interactive lectures



1M + alumni network



Industry expert sessions, webinars and projects



Flexibility to learn anytime, anywhere



High-quality education at an affordable price



24x7 student support centre



Recorded online classes for flexible learning



Collaborative learning with a diverse peer group



Case studies, simulations & projects

Your ability to succeed is going to depend on you filling a niche that's valuable.

Source: Scott Page



Online degree program

MSc Data Science

Eligibility

- Candidates must have completed 10+2+3-year bachelor's degree in Statistics / Mathematics / Computer Science / Engineering / Technology or any other discipline with a minimum of two years of learning Mathematics or Statistics from a recognized university/ institution or an equivalent qualification recognized by the Association of Indian Universities (AIU) with a minimum of 50% of marks or equivalent grade.
- Work experience is desirable

Fee structure

- INR 2,80,000 (all inclusive)
- INR 70,000 (each semester)
- INR 1,500 (non-refundable application fee)

Duration

- 2 Years/24 Months (4 Semesters)

Career Prospects (Upon Completion of Program)

- Data Scientist
- Predictive Modeler
- Ai Engineer
- Machine Learning Expert
- Business Intelligence Analyst
- Big Data Engineer
- Data Engineer
- Data Analyst
- Data Visualization Specialist
- Database Administrator

With a perfect blend of machine learning, big data analytics, and statistics, this master's program will equip you with technical, analytical and leadership skills you need to build a distinctive career in Data Science.

MSc Data Science | Program structure

First semester

Computational Mathematics

Probability and Probability Distribution

Programming with R and Python

Statistical Inference

Database Management

Second semester

Linear Regression Models

Categorical Data Analysis
and Generalized Linear Models

Distributed Algorithms and Optimization with
Hadoop and Spark

Stochastic Processes

Design and Analysis of Experiments

Mini Project

Third semester

Time Series Analysis

Machine Learning Methods

Deep Learning Principles
and Applications

Applied Multivariate Data Analysis

Research Methodology

Fourth semester

Capstone Project

Elective-1

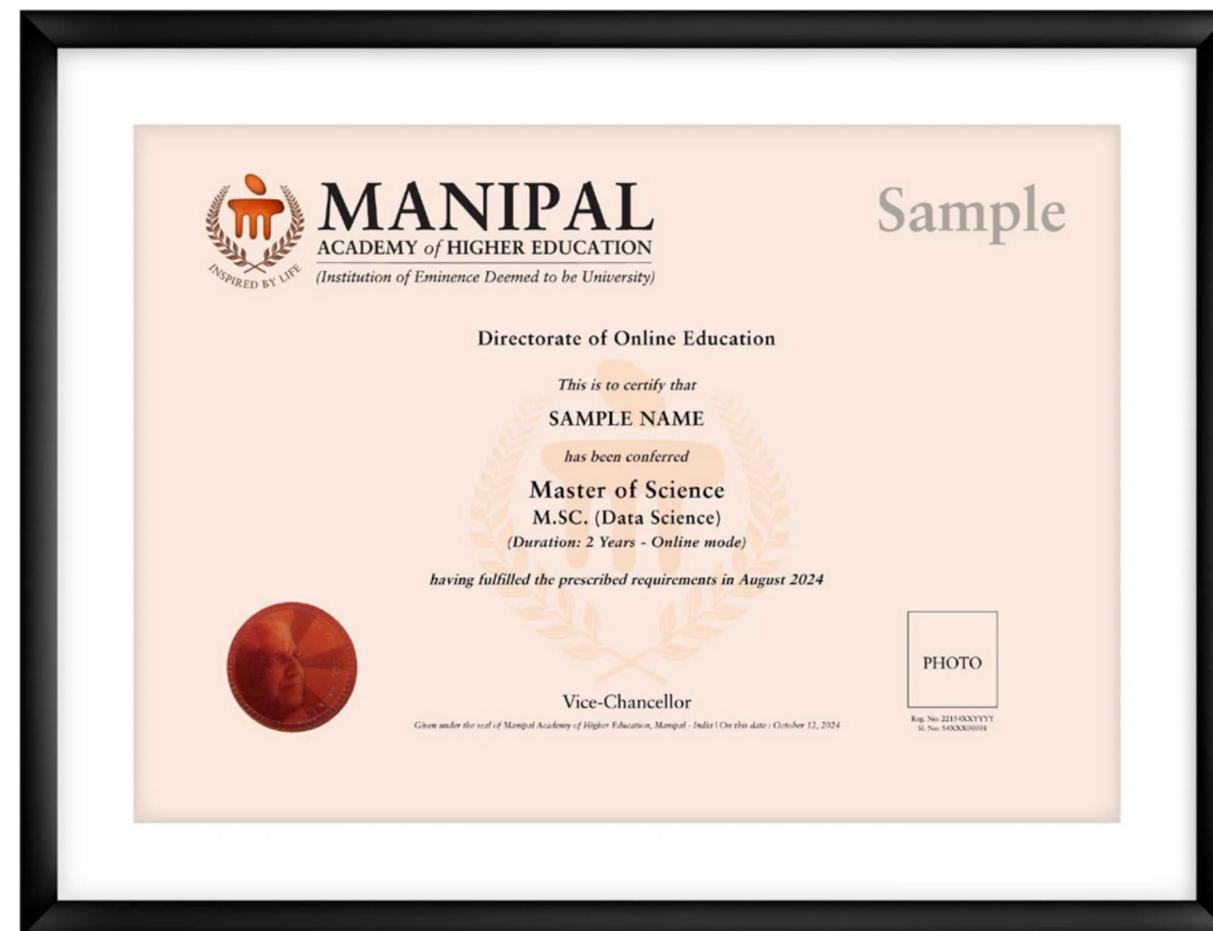
Elective-2

Electives (Choose Any 2 Electives)

1. Computer Vision
2. Health Technology Assessment
3. Natural Language Processing (NLP)
4. Bayesian Statistical Modelling
5. Programming in SAS for Analytics

- Mini Project during second semester carries 2 credits
- Stochastic Processes and Design & Analysis of Experiments during second semester carry 3 credits each
- Capstone Project during final semester carries 12 credits
- All other courses carry 4 credits each

Sample certificate



Globally recognized and widely accepted by governments and organizations, the online degrees offered by Manipal Academy of Higher Education are at par with on-campus degrees and open doors to better professional opportunities.

Get onboard



Program registration

Fill in your basic, education & work experience-related details and pay the application fee to register.



Fee payment

Pay the admission fee for the first semester/year or full program.



Document upload

Upload supporting documents & submit your application.



University approval

The university will evaluate your documents to confirm your admission.

Meet the Manipal Group alumni who have emerged as world leaders!



Satya Nadella
CEO
Microsoft Corporation



Banmali Agrawala
President
Infrastructure, Defence
and Aerospace,
Tata Sons



Rajeev Suri
CEO
Inmarsat



Vikas Khanna
Michelin Star Chef



**Dato Dr. Sheikh
Muszaphar**
Malaysia's First
Astronaut



George Muthoot
Chairman Muthoot
Group

Testimonials



Mayank

I have over 10 years of work experience in IT working with Google. I wanted to upskill myself and expand my knowledge in data science. MAHE's online MSc in data science program has helped me improve my knowledge.



Thomas

My innate passion and love for learning pushed me to pursue an online degree at the age of 62. I thank Online Manipal for this wonderful opportunity and for constantly supporting me. Learning has no end.



Abhishek Godiyal

The course curriculum of this program is perfect for me to upgrade my skills & knowledge. The free access to paid Coursera content is extremely helpful. The learning management system is also easy to use.





online
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