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

You Can Be
The Next *Game Changer*

PROSPECTUS 2024-25

MSc - Data Science

100% Online

INSTITUTION
OF EMINENCE
by Government of India

NAAC A++
Accredited

INSPIRED BY LIFE
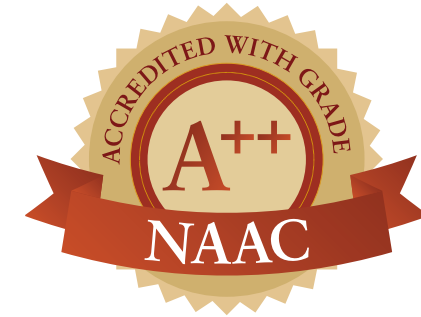
online
MANIPAL

RANKED 6

Amongst India's Top 10 Universities in 2023

RANKED 25

Amongst World's Top Universities for Quality Education in 2023

ACCREDITATION

Achieved Highest Accreditation Grade by NAAC

RANKED 600-800

#601-800 in World University Rankings 2024

Manipal Academy of Higher Education (MAHE) Rankings

These rankings validate our academic model, pedagogy, and educational quality while establishing academic credibility and certifying a graduate's credentials to employers.

ACCREDITATION

Among India's Few Universities Granted IOE Status

RANKED 1

India's Top Deemed Universities by ICARE - 2022

RANKED 215

Amongst Asia's Top Universities in 2023

RANKED 2

India's Top Private Universities in 2022-23

RANKED 251-300

#251-300 in Asia University Rankings 2023

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 it's 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 organisations, 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 programs 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. Narayana Sabhahit
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

- 10+2+3 year graduate degree in Statistics / Mathematics / Computer Science / Engineering / Technology or any other discipline with a minimum of two years of earning Mathematics or statistics from a recognized university / institution with an equivalent qualification recognized by the Association of Indian Universities (AIU).

- Work experience is desirable.

- Candidates who have completed 10+2 education or graduate level education outside India must produce a certificate of equivalence issued by the Association of Indian Universities.

Fee structure

- $ 3250 (all inclusive)
  $ 810 (each semester)
- $50 (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	Second semester	Third semester	Fourth semester
Computational Mathematics	Linear Regression Models	Longitudinal Data Analysis	Programming in SAS for Analytics
Probability and Probability Distribution	Categorical Data Analysis and Generalized Linear Models	Machine Learning methods	Applied Data Analytics
Programming with R and Python	Distributed Algorithms and Optimisation with Hadoop and Spark	Deep Learning and Text Mining	Research Methodology
Statistical Inference	Stochastic Processes	Bayesian Statistical Modelling	Capstone Project
Database Management	Design and Analysis of Experiments	Elective 1 (Choose one) - Health Technology Assessment Image Processing and Analytics	
	Mini Project	Elective 2 (Choose one) - Nonparametric and Nonlinear Regression Models Time Series Analysis	

- All courses including the elective carry 3 and 4 credits each.
- The major project during the final semester carries 12 credits.

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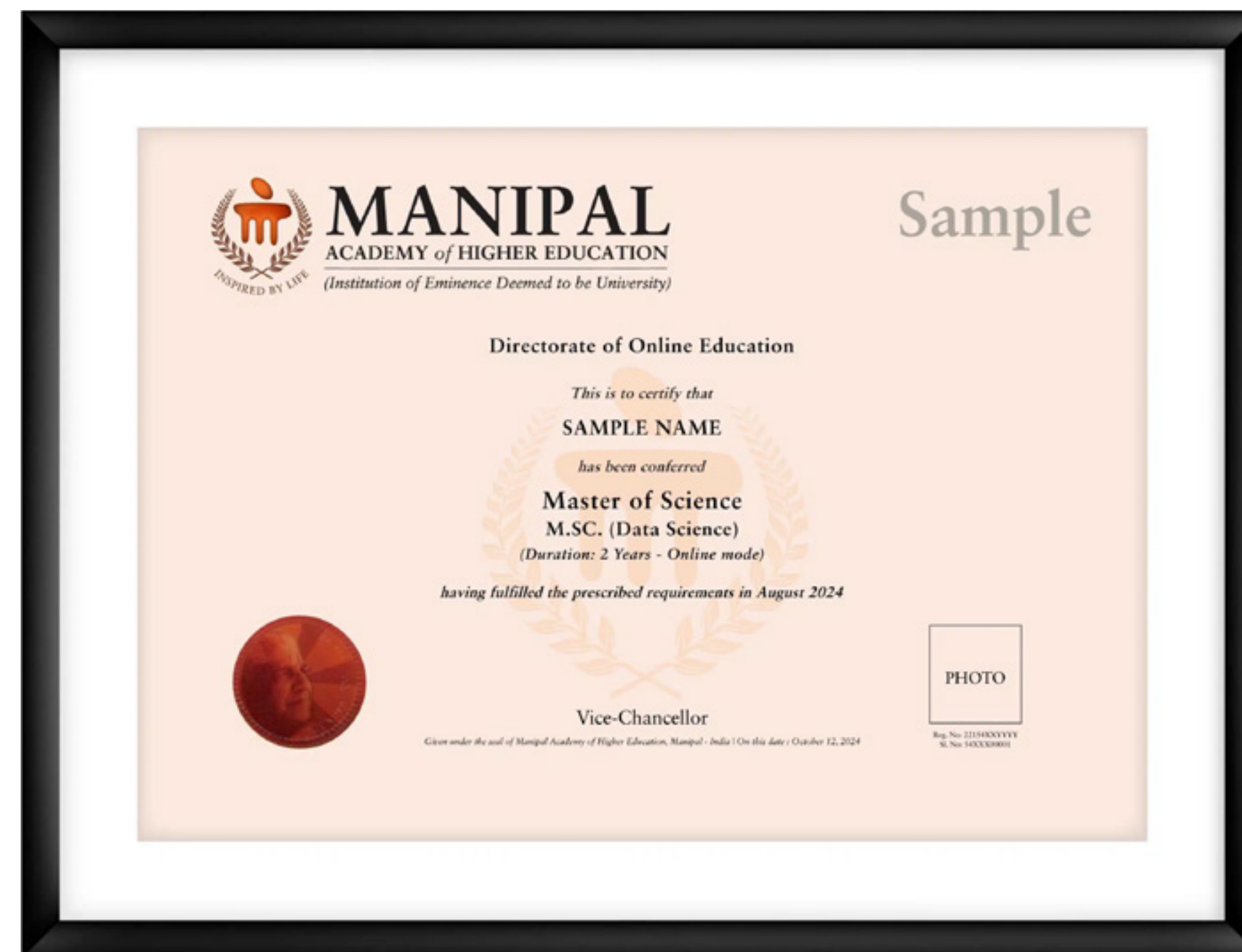
Globally recognized and widely accepted by governments and organizations, the online degrees offered by Manipal Academy of Higher Education are at par with on-campus degrees and open doors to better professional opportunities.

Get onboard
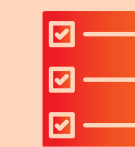
Choose a program & register
Choose the program you want to pursue & register by filling in your basic details and paying the application fee.

Provide educational & work details
Fill in your educational & work experience-related details.

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

Upload documents & submit application
Upload supporting documents & submit your application to complete the process.

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.

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