





INTERNATIONAL M.SC. PROGRAMME

TWO YEAR POSTGRADUATE DEGREE IN DATASCIENCE August 2025- August 2027



POSTGRADUATE CERTIFICATE IN DATA SCIENCE

2025-2026 – at Stella Maris College (SMC) and Gnanam Institute for Training in Advanced Analytics (GITAA) (IIT Madras incubated startup company), Chennai, India.

Contact Classes: Monday to Saturday



2026-2027: Liverpool Hope University, UK

ON THE COLLABORATION

To offer a Joint Certificate Programme titled Stella Maris and GITAA Postgraduate Certificate in Data Science by Stella Maris College and the Gnanam Institute for Training in Advanced Analytics leading to an award in M.Sc. Degree in Data Science conferred by the Liverpool Hope University, UK.

Recognizing the importance of the field of Data Science, LHU, SMC and GITAA have embarked on a collaboration towards skilling students in this upcoming area.



LIVERPOOL HOPE UNIVERSITY

Liverpool Hope Business School is a leading international business school with a strong collegiate environment. The Business School is renowned for educational excellence in Business Management, Marketing, Human Resource Management, Accounting and Finance, Business Ethics, Law and Tourism Management. Our aim is to inspire a more sustainable future by developing graduates who are educated in sustainable business management. Recognised for its teaching quality, in the National Student Survey, Liverpool Hope Business Management Programme ranks at 90% (7% above national average) for students who believe their skills have improved whilst studying at Liverpool Hope.



STELLA MARIS COLLEGE



GITAA

Gnanam Institute for Training in Advanced Analytics (GITAA), an IITM incubated company was founded by Prof. Raghunathan Rengaswamy and Prof. Shankar Narasimhan from the Indian Institute of Technology, Madras. The IIT ecosystem backs this initiative through IIT Madras incubation cell. Several faculty from IITs and industry professionals contribute to teaching at GITAA.

Structured on the prevalent industry prerequisites and the emerging technological needs of tomorrow, GITAA's courses on Al, Machine learning and Big Data include a fine balance between pragmatic learning and leadershipfocused content. Having trained over 2500 professionals, students and executives so far, GITAA endeavors to ably upskill professionals and business leaders for today's Al-led world.

At STELLA MARIS COLLEGE with GITAA

Postgraduate Certificate in Data Science 2025 – 26

Time Frame:

Course commencement on August 2025 Course completion on August 2026

Programme Structure:

Phase 1:

At SMC and GITAA: Aug–Dec 2025

- Core Modules 4
- Elective Modules 1 out of 2

Phase 2:

At SMC and GITAA: Jan - May 2026

- Core Modules 4
- Elective Modules 1 out of 2

Phase 3:

At SMC: June - Aug 2026

Internship

Core Modules:

- Statistical Methods
- Linear Algebra and Numerical Methods
- Data Base Management System
- Fundamentals of Data Analytics using Python
- Operating System
- Programming MATLAB, R, Tableau
- Data Communication and Networking
- Advanced Machine Learning using Python
- Basics of Academic Writing and Research

Elective Papers (2 modules out of 4)

- Optimization of Techniques
- Discrete Mathematics & Modeling
 Techniques
- Data Security & Authentication
- Time Series Analysis using Python



At the Liverpool Hope University, UK

Phase 4: (Oct 2026)

- Programming Julia, Lua
- Cloud Computing and Big Data Technology (Theory & Practical)
- High Performance Computing
- Artificial Intelligence
- Visualization, VR & AR
- Advances in Data Science

Phase 5:

Dissertation

The programme offers placement opportunities in India and in the UK. The Liverpool Hope Career guidance office and the SMC CGC will be able to support placements.

For further information please contact at Stella Maris College:

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ELIGIBILITY CRITERIA

Stella Maris developed a Postgraduate Certificate in Data Science which reflects the requirements and expectations of the (Masters) programme under the UK Framework for Higher Education Qualifications

Eligibility Criteria for M.Sc. Data Science: Any Undergraduate Degree with either • At least one paper on Mathematics in UG • Mathematics at Higher Secondary Level

Hope requires a successful completion of the programme offered by SMC and GITAA with grade equivalent to a distinction (75%) in order to qualify for admission to the Hope University for Masters in Data Science. Students shall have achieved a grade equal to distinction in the programme at Stella Maris.

In addition to the successful completion of the programme outlined above, LHU requires compliance with its English Language requirements in one of the following ways:

• IELTS 6.5, including a minimum of 6 in reading and writing, and 5.5 in speaking and listening

• TOEFL ibt 87 including a minimum of 18 in reading and 17 in writing
• Pearsons Test of English Academic 65,

including a minimum of 59 in reading and writing, and 51 in speaking and listening.

