MANIPAL UNIVERSITY
JAIPUR

Master of Science (M.Sc.)

Mathematics and Computing

Admission 2026-27

About the Program

The M.Sc. Mathematics and Computing is a two-year postgraduate program spanning four semesters, designed to be career- and application-oriented. The program aims to provide a strong interface between core mathematical theory and modern computational techniques. It is structured to equip students with a solid foundation in mathematics along with essential computational and analytical skills required to solve real-world problems. The curriculum is aligned with global academic standards and follows a credit-based course system. The program emphasizes applications in emerging areas such as data analytics, artificial intelligence, finance, scientific computing, and technology-driven industries. With a balanced focus on teaching, research, and skill development, the program enables students to excel in both academic and industry-oriented roles.

More about the Department
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Key Highlights of the Program

This program is designed to meet global standards and follows a credit-based system with 80 credits. Each course handout details COs, POs, PSOs, assessment plans, syllabus, lecture plans, and CO–PO/PSO mapping, providing clear insights into employability and skill development.

- **Major Highlights:**
- On-Campus Program
- **Duration:** 2 Years (80 Credits)
- **Strong blend of Mathematics + Computing**
- Industry-relevant curriculum integrating Mathematics with modern computing tools
- **Industry Internship:** Gain real-world experience through internships with leading companies
- **Final Semester Project:** Apply theory to practical and research problems.
- Preparation for careers in industry, research, and higher studies.

Prominent Recruiters

TCS	BYJU'S	Infosys	upGrad
Wipro	Vedanta	Capgemini	L&T (LT Foods Ltd.)
Deloitte	JD – Financial Analytics	SAP Labs	PhonePe
Aquan Ltd.	Paytm	Accenture	Cognizant
Mu Sigma	JPMorgan Chase	Morgan Stanley	DRDO

Unique Research and Lab Facilities

- 650+ research papers published in SCOPUS/SCI (National and International Journal) up to Dec 2025.
- Software facilities SPSS, MATLAB, MAPLE, Mathematica, C/C++, Python.

National and International Collaborations

- MUJ has signed over 95 MOUs Academic Institutions & Industries to provide its students international exposure and job opportunities at global level
- Department collaborated with National Mandela African Institution of Science and Technology (NM-AIST) Tanzania

Career Opportunities

- **Industry Roles:** Data Scientist, Quantitative Analyst, Software Engineer, Machine Learning Engineer, Operations Research Analyst and Scientific Programmer.
- **Higher Studies:** Ph.D. Mathematics, Computing, Data Science and AI.
- **Research and Government Organizations:** ISRO, DRDO, CSIR, Research Labs, Universities.

Fee structure INR

Category	Fee Year 1	Fee Year 2	Total Program Fee (including Caution Deposit)
General (INR)	Tuition Fee: 1,15,000 (Registration Fee: 10000 + Caution Deposit Refundable: 10000)	Tuition Fee: 1,15,000	INR 2,50,000
Foreign/NRI (USD)	Tuition Fee: 2700 (Registration Fee: 300 + Caution Deposit Refundable: 300)	Tuition Fee: 2700	USD 6000

Eligibility

- Bachelor's degree: B.Sc. / B.A. / B.E. / BCA / B.Tech. or equivalent
- Mathematics must be a major subject at the undergraduate level
- Minimum 60% aggregate marks or equivalent CGPA.

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The MUJ EDGE (Why MUJ)

The Manipal Education Group, with its heritage of excellence in higher education for over 71 years, launched Manipal University Jaipur (MUJ) in 2011. MUJ was established on an invitation from the Government of Rajasthan and has been established by an Act (No. 21 of 2011) of State Legislature of Rajasthan as a State Private University as specified by UGC under section 22 of the UGC Act 1956.

Modern Infrastructure

- World-class infrastructure featuring state-of-the-art research facilities
- Well-equipped laboratories, computational facilities, and digital learning resources
- Access to e-journals, research databases, and advanced software tools.

Academic Excellence

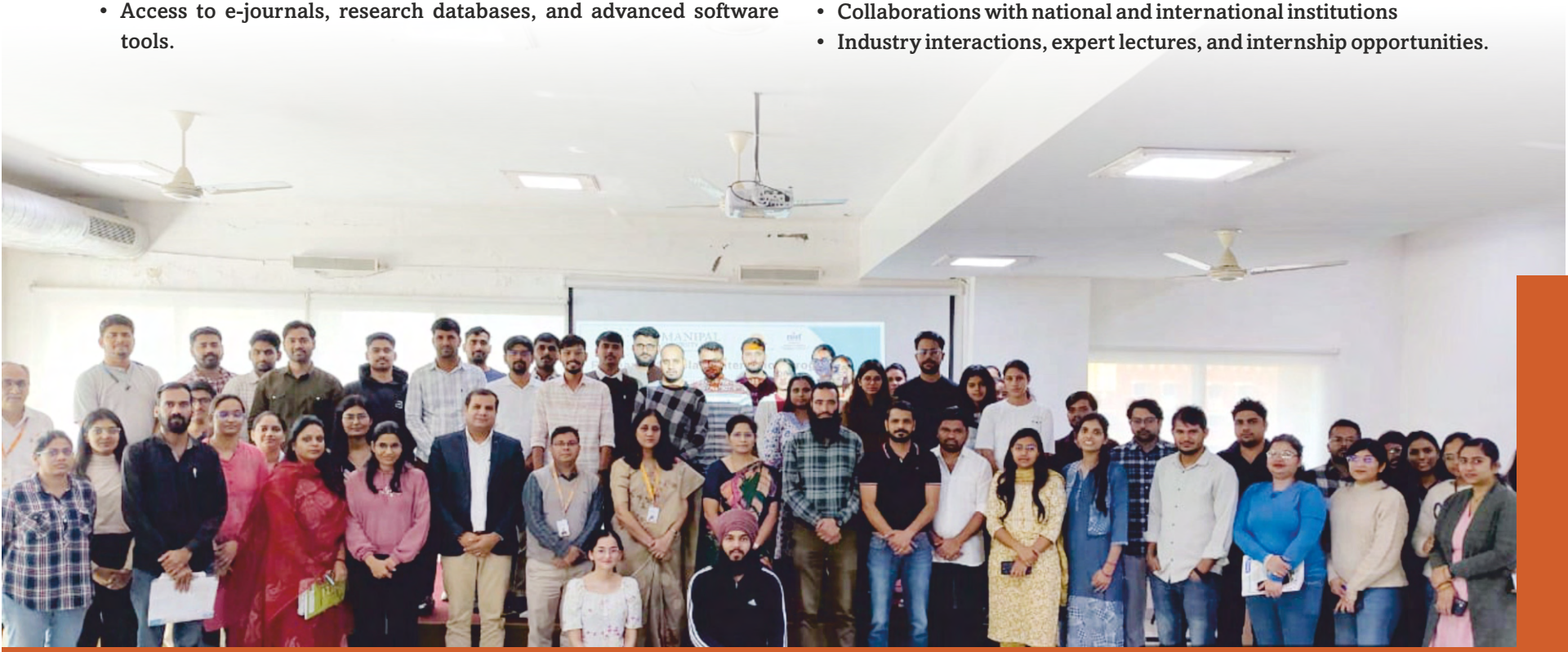
- Industry and research-aligned curriculum
- Strong foundation in core concepts with emphasis on applications and emerging areas
- Highly qualified faculty with strong research credentials
- Personalized mentoring and academic support.

Research Exposure

- Early exposure to research through projects, seminars, and workshops
- Guidance for publications, internships, and higher studies.

Global & Industry Connect

- Collaborations with national and international institutions
- Industry interactions, expert lectures, and internship opportunities.



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Curriculum (Only Scheme)

Semester I					
Course Code	**Course**	**L**	**T**	**P**	**C**
MAS6121	Matrix and Linear Algebra	3	0	0	3
MAS6122	Discrete Mathematics and Its Applications	3	0	0	3
MAS6123	Advanced Differential Equation	3	0	0	3
MAS6124	Applied Statistics and Probability	3	0	0	3
MAS6125	Computer Programming with C	3	0	2	4
MAS6126	Foundation of Data Science with Python	3	0	2	4
Total		**18**	**0**	**4**	**20**
Total Contact Hrs.		**22**			

Semester II					
Course Code	**Course**	**L**	**T**	**P**	**C**
MAS6221	Real and Functional Analysis	3	0	0	3
MAS6222	Optimization Theory and Applications	3	0	0	3
MAS6223	Data Structures and Algorithms	3	0	2	4
MAS6224	Relational Database Management Systems	3	0	2	4
MAS6225	Object Oriented Programming	3	0	2	4
MAS6226	Seminar and Technical writing	0	0	0	2
Total		**15**	**0**	**6**	**20**
Total Contact Hrs.		**21**			

Semester III					
Course Code	**Course**	**L**	**T**	**P**	**C**
MAS7121	Numerical Methods with MATLAB	3	0	2	4
MAS7122	Mathematical Statistics with SPSS	3	0	2	4
	Program Elective* I	4	0	0	4
	Program Elective* II	4	0	0	4
MAS7170	Industry Internship	0	0	0	4
Total		**14**	**0**	**4**	**20**
Total Contact Hrs.		**18**			

Semester IV					
Course Code	**Course**	**L**	**T**	**P**	**C**
	Program Elective* III	4	0	0	4
MAS7270	Project	0	0	0	16
Total		**4**	**0**	**0**	**20**
Total Contact Hrs.		**4**			

List for Program Elective* I

MAS7123 Financial Mathematics
MAS7124 Introduction to Computational Fluid Dynamics
MAS7125 Statistics in Decision Makings
MAS7126 Algebraic Coding theory
MAS7127 Time Series Analysis

List for Program Elective* II

MAS7131 Applied Machine learning
MAS7132 Data Visualization
MAS7133 Soft Computing and Fuzzy Systems
MAS7134 Computer Networks
MAS7135 Operations Research and Supply Chain Analytics

List for Program Elective* III

MAS7221 Cryptography and Network Security
MAS7222 Image Processing
MAS7223 Big Data Analytics
MAS7224 Neural Networks
MAS7225 Generative AI

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Admission Process

Application form initiated through our website
admissions.jaipur.manipal.edu

Applicants must submit a completed application form with relevant documents within the due date.

Our counsellors will guide candidates through the admission process, which is as per regulatory requirements.

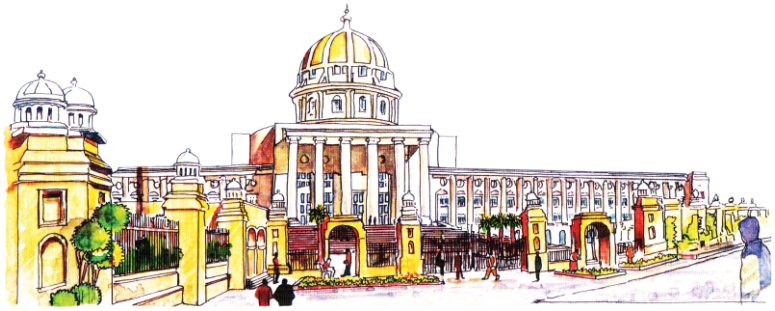
FAQ

Please visit the FAQ section on our website to know more about the admission process.

Admission Team Contact Details

1800 1020 128

Hostel Details



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