

SVKM's NMIMS (Deemed to be University)
Nilkamal School of Mathematics, Applied Statistics, & Analytics (NSoMASA)
Programs: Ph.D. in Mathematics / Ph.D. in Statistics/ Ph.D. in Data Science
Instruction Sheet

Ph.D. in Mathematics

- 1. Introduction:** The **Ph.D. in Mathematics** focuses on **theoretical and applied research** in core and interdisciplinary mathematical areas. This program prepares researchers to work in Analysis, Computational Mathematics, Numerical Analysis, Mathematical Modelling using Differential Equations, Mathematical Biology, Wavelet Analysis, Approximation Theory.
- 2. Duration of the Programme:** **Minimum 3 years & Maximum 6 Years** (including course work). **Intake : 10 seats**
- 3. Eligibility Criteria:** It is the sole responsibility of the candidate to check his/her eligibility before applying for the program. The basic qualification criteria for the purpose of admission to the Ph. D. Program shall be as under:
 - Candidate seeking admission to the **Ph.D. programme in Mathematics** shall have a **Master's degree with Mathematics** as a major subject from a recognized university with at least **55% marks in aggregate or its equivalent grade 'B'** in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assuring quality and standards of educational institutions.
 - Qualified in NMIMS entrance test or NET / SET / GATE / JRF examination is mandatory.
 - Candidates those who have qualified (with valid period & valid score) in NET / SET / GATE / JRF examination of the apex bodies in higher education such as UGC, CSIR or other equivalent examinations mentioned on the score card, such candidates are exempted from NMIMS entrance test. However, they have to appear for Personal Interview.
 - A candidate who already has a Master of Philosophy Degree in the same research area shall be admitted directly into the Ph.D. program after due consideration of the application documents, which shall include a clear statement of additional work to be conducted for the award of the Ph.D. as well as a work-plan evaluated by the intended thesis guide and the Thesis Advisory Committee.

Ph.D. in Statistics

1. Introduction:

The **Ph.D. in Statistics** at NSoMASA is designed for scholars interested in theoretical and applied statistical research. This program prepares researchers to work in quantitative modeling, data- driven decision-making, and statistical computing.

2. Duration of the Programme: Minimum 3 years & Maximum 6 Years (including course work). **Intake : 10 seats.**

3. Eligibility Criteria: It is the sole responsibility of the candidate to check his/her eligibility before applying for the program. The basic qualification criteria for the purpose of admission to the Ph. D. Program shall be as under:

- Candidates seeking admission to the **Ph.D. programme in Statistics** shall have a **Master's degree in Statistics/ Applied Statistics or a professional degree declared equivalent to the Master's degree in Statistics** by the corresponding statutory regulatory body, **with at least 55% marks in aggregate or its equivalent grade 'B'** in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assuring quality and standards of educational institutions.
- Qualified in NMIMS entrance test or NET / SET / GATE / JRF examination is mandatory.
- Candidates those who have qualified (with valid period & valid score) in NET / SET / GATE / JRF examination of the apex bodies in higher education such as UGC, CSIR or other equivalent examinations mentioned on the score card, such candidates are exempted from NMIMS entrance test. However, they have to appear for Personal Interview.
- A candidate who already has a Master of Philosophy Degree in the same research area shall be admitted directly into the Ph.D. program after due consideration of the application documents, which shall include a clear statement of additional work to be conducted for the award of the Ph.D. as well as a work-plan evaluated by the intended thesis guide and the Thesis Advisory Committee.

Ph.D. in Data Science

1. Introduction:

The **Ph.D. in Data Science** at NSoMASA is designed for researchers looking to advance knowledge in artificial intelligence, machine learning, big data analytics, and computational intelligence. The program covers advanced research in topics for solving real world problems through recent developments including in those in deep learning, reinforcement learning, natural language processing, and predictive modeling.

2. Duration of the Programme: Minimum 3 years & Maximum 6 Years (including course work). **Intake 10 seats.**

3. Eligibility Criteria: It is the sole responsibility of the candidate to check his/her eligibility before applying for the program. The basic qualification criteria for the purpose of admission to the Ph. D. Program shall be as under:

- Candidates seeking admission to the **Ph.D. program in Data Science** shall have a **Master's degree in Computer Science, Information Technology, Data Science and Artificial Intelligence or equivalent programs** from a recognized university **with at least 55% marks in aggregate or its equivalent grade 'B'** in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assuring quality and standards of educational institutions.
- Qualified in NMIMS entrance test or NET / SET / GATE / JRF examination is mandatory.
- Candidates those who have qualified (with valid period & valid score) in NET / SET / GATE / JRF examination of the apex bodies in higher education such as UGC, CSIR or other equivalent examinations mentioned on the score card, such candidates are exempted from NMIMS entrance test. However, they have to appear for Personal Interview.
- A candidate who already has a Master of Philosophy Degree in the same research area shall be admitted directly into the Ph.D. program after due consideration of the application documents, which shall include a clear statement of additional work to be conducted for the award of the Ph.D. as well as a work-plan evaluated by the intended thesis guide and the Thesis Advisory Committee.

4. Important Instructions:

Eligibility Related:

- Candidates appearing or waiting for the final year result are eligible to apply. The candidate must have appeared for all his subject(s) / exams before the commencement of the program. However, their admission would be considered provisional, subject to their meeting the minimum eligibility criteria after their final examination results are announced.
- Candidates whose final mark sheet of the qualified examination is not available at the time of their provisional admission, is required to submit their final marksheet copy as soon as the result is declared. In such case, if the candidate fails to meet the required eligibility criteria, then his/her admission will be cancelled and the fees will be refunded as per NMIMS refund rules.
- Candidates are required to submit all mark sheets of a program with degree certificates and AIU certificate (by the candidate who has completed their studies at foreign country) at the time of admission.
- Candidates who have obtained their degree by doing a part-time course or through distance learning, correspondence courses, externally, open school from recognized University are eligible to apply and register as per UGC guidelines.
- All admitted students will have to complete Ph. D. course work of related subject as prescribed by the SVKM's NMIMS (Deemed to be University). On successful completion of Ph.D. course work student will be eligible for registration for Ph.D. programme.

Admission related:

- Candidate has to check website for all details. Please check the important dates. All announcements from the SVKM's NMIMS (Deemed to be University) will be through its website www.nmims.edu
- The admission information handout's eligibility requirements will serve as the only document for program eligibility. School's brochure or prospectus will only be used as a guide and not be used to refer eligibility.
- For cancellation/ withdrawal of admission: Withdrawal/ cancellation means voluntary withdrawal/ cancellation by a candidate for any reason. Candidate has to upload cancellation form duly filled, signed, fees paid receipt copy & cancelled cheque (personal account) to mentioned link: **<https://upload.nmims.edu/admission/cancellation/>**
- The candidate who is pursuing PhD at SVKM's NMIMS (Deemed to be University), should not take PG / PhD admission in any other University.

- If at any stage, it is found that a candidate does not satisfy the eligibility criteria or the information furnished by him/ her in the application form is incorrect, his/her application for admission to the program, even if selected, will stand cancelled and fees will be refunded as per SVKM's NMIMS (Deemed to be University) refund rules.
- Candidate's document/s will be verified at the time of admission (if selected) and if found not eligible, admission will be cancelled and fees will be refunded as per SVKM's NMIMS (Deemed to be University) refund policy.
- It is the sole responsibility of the candidate to ascertain whether they possess the necessary and requisite qualifications for admission at SVKM's NMIMS (Deemed to be University), as verification of the documents is done at the time of final admission. SVKM's NMIMS (Deemed to be University) has full right to disqualify a candidate at any stage of the admission process if found ineligible.
- Admission to program is considered as "Provisional Admission" till all required and mandatory documents are submitted by the candidate and the same are verified and approved. If it is found that the candidate is not eligible at any stage (even after the course commencement), admission will be cancelled and fees will be refunded as per refund rule clauses even if selected/ admitted to the program. Candidate's admission will be cancelled by the university if they do not voluntarily withdraw.
- Canvassing in any form will disqualify the candidate.
- All matters of dispute will be subject to the legal jurisdiction of Mumbai only.
- The admission information handout's eligibility requirements will serve as the only document for program eligibility. School's brochure or prospectus will only be used as a guide and not be used to refer eligibility.

5. Admission Process

At NSoMASA, we welcome aspiring researchers who are passionate about mathematics, statistics, and data science. Those who wish to join our programs must meet the eligibility criteria and adhere to the admission process outlined below.

| Step 1 | Step 2 | Step 3 | Step 4 |
|---|---|--|--|
| Initial Registration, Pay the application fees and complete the process | Download call letter & Upload required documents for Entrance Test & PI | To appear for Entrance Test and Personal Interview | To complete admission formalities |
| Visit https://www.nmims.edu | Candidates, who register successfully, only will be confirmed for Entrance Test & Personal Interview. | The Entrance Test and Personal Interview will be held at Mumbai Campus only. | Selected Candidate has to confirm his / her provisional admission by filling up e-admission form, uploading required document and paying fees within given timeline. |
| For registration click on “Apply Now” and create an account. | Candidates are required to download the call letter from login dashboard. No separate call letter will be mailed or posted. | | Only those candidates who complete the process by paying fees will be provisionally admitted to the program |
| Candidate will get the login credentials on their registered email ID to fill and complete the application form. | Upload mentioned documents for Entrance Test and personal Interview. Keep the presentation ready for the interview. | | |
| Before filling the online form, please read all the instructions carefully mentioned in the instruction handout, important dates and Terms & Condition given in the online application form | | | |

5.1 Online registration and Payment of registration fee (step 1)

- Visit **www.nmims.edu** for online registration.
- Online Registration Fee of Rs. 2,500/- plus GST if applicable (Please refer online registration for payment details)

- Before filling the online registration form, please read all the instructions carefully mentioned in instruction sheet, important dates and Terms & Conditions given in online application form.
- Registration Fees is NON-REFUNDABLE / NON-TRANSFERABLE.
- Kindly keep below details available:
 - ABC ID (Academic Bank of Credits)" (Please visit website for creating ID: <https://abcidcard.co.in/>)
 - AADHAAR NUMBER.
 - AADHAAR NAME (Name as mentioned in Aadhaar card)

5.2 Call letter (Step 2)

- List of Documents to be uploaded to appear Entrance Test & Personal Interview.
- Copy of duly filled online application form
- 10th mark sheet & passing certificate
- 10+2 or equivalent mark sheet and passing certificate
- Degree mark sheet (all semesters) & Degree certificate
- Post-Graduation marksheet (all available semesters) & certificate
- Statement of Purpose (SOP) should describe the "Area of Research" (format available on website)
- Competitive exam certificate if any (based on which candidate is exempted from NMIMS Entrance Test)
- Candidate's application form will not be considered, if they fail to upload the above mentioned documents till last date of registration.
- Call letter for entrance test and personal interview will be made available to candidates at candidate's dashboard as per important dates on website.
- The candidate must be available in person as per the mentioned time given in the call letter.

Note: The name on the Aadhaar card and NMIMS registration / admission form should be identical. Original/s documents will be required for verification before program commencement.

6. Admission Selection Process

A] Entrance Test: (100 marks, 90 minutes), will be conducted at Mumbai campus only.

| | | |
|---|--|--|
| Section A (Common to all) (50 marks) | Aptitude based MCQ (Logical reasoning, Quantitative Aptitude, English Language) | |
| Section B (Domain Specific) (50 marks) | Ph.D. Mathematics | Algebra, Calculus, Analysis, Topology, Numerical analysis and Differential Equations |
| | Ph.D. Statistics | Linear Algebra, Probability Theory, Distribution Theory, Statistical Inference, Estimation Theory. |
| | Ph.D. Data Science | Python Programming, SQL, Machine Learning, Deep Learning, Natural Language Processing, Big Data Analysis & Cloud Computing |

B] Personal Interview:

- Presentation based on Statement of Purpose will be followed by Personal Interview.
- During interviews, candidates are expected to discuss their research interest/area.
- Final merit list will be based on entrance test & personal interview marks.
- Admission offer is given as per the merit and vacancy available. WAITLISTED candidates can check their merit list status as per the date given on the website. SELECTED candidate should upload necessary required documents and pay the full program fees at the link given in respective candidate's log-in within the stipulated given time frame. Kindly note that only those candidates who complete the process by paying fees will be admitted to the program.

Weightage

Entrance Test : 100 marks (70%)

Personal Interview : 50 marks (30%)

Note:

- The candidate must have qualified written test with **qualifying marks as 50%** conducted by the SVKM's NMIMS Deemed to be University. Only entrance test qualified candidate will be called for Personal Interview.
- Candidates those who have qualified (with valid period & valid score) in NET / SET / GATE / JRF examination of the apex bodies in higher education such as UGC, CSIR or other equivalent examinations mentioned on the score card,

such candidates are exempted from NMIMS entrance test. However, they have to appear for Personal Interview.

- Candidates with any research fellowship from Government agencies are exempted from the written test conducted by SVKM's NMIMS and their selection would be through interview only.

7. Ph.D. Program Fee

Program Fees: (for Batch 2025 as below. This is only for information. Fees for Batch 2026 will be informed at the time of admission)

- Effective fees for all Ph.D. students will be Rs. 50,000/- p.a.
- Annual fees: Rs. 2,50,000/- Annual Scholarship: Rs. 2,00,000/-
- Scholarship form is available on;
<https://mathematics.nmims.edu/academics/programs/phd-statistics/>
- The duly filled scholarship form (hardcopy) should be submitted at following address along with the copy of registration form, copy of SOP, complete resume, admission form and the admission offer letter copy (which is available on student's dashboard):

Address: Nilkamal School of Mathematics, Applied Statistics & Analytics, SVKM's Narsee Monjee Institute of Management Studies, V. L. Mehta Road, Vile Parle (W), Mumbai – 400 056, India.

Note:

- Scholarship will be provided for up to 05 years or completion of Ph.D. program, whichever is earlier.
- If a student is found indulging in any unlawful activity, the scholarship will stand cancelled with immediate effect.
- Ph.D. student will not be entitled to avail of the scholarship if he/she re-registers for Ph.D. or take re-admission for the Ph.D. program.

Fellowship:

- Fellowship: Fellowship will be provided to Students in line with UGC.

8. Research Areas

The field of research at NSoMASA spans various domains critical to modern technological advancements and innovation. Some of the key areas include, but are not limited to;

| Subject | Area of Research |
|---------------------|--|
| Mathematics | Pure Mathematics, Number Theory, Algebraic Structures, Functional Analysis, Computational Mathematics, Mathematical Modeling, Numerical Analysis, Optimization Techniques, Graph Theory, Network Science, Combinatorial Mathematics, Topological Data Analysis, Complex Analysis, Geometric Function Theory, Non-linear Dynamics |
| Statistics | Statistical Inference, Advanced Statistical Analysis, Reliability Theory, Applied Probability, Time Series Data Analysis, Multivariate Data Analysis, Operations Research, Actuarial Science, Stochastic Processes, Business Analytics, Decision Science, Quantitative Techniques, Parametric and Non-parametric Inference, Reliability Theory |
| Data Science | Machine Learning, Deep Learning, Supply Chain Analytics, Healthcare Management, Visual Analytics, Natural Language Processing (NLP), Big Data Analytics, Explainable AI, Reinforcement Learning & Agentic AI, Geospatial Computing, Vision Intelligence & Spatial Analytics, Information Security & Cyber Threats |

9. Contact Information;

NMIMS Admission / Application / Technical related queries:

- (a) Toll Free No: 18001025138 – Monday to Saturday (Except public holidays).
Saturday (only 2nd and 4th Saturday) Time: 09:00 - 18:00 hrs
- (b) For any support and assistance kindly login to the dashboard
<https://apply.nmims.edu> & raise a query in my query section
- (c) Queries can also be sent on admission.nsomasa@nmims.edu
- (d) We look forward to helping you with your queries and guiding you
through the admission process at NSoMASA. Reach out to us at Direct
Contact : 022 42335184