MS by Research and PhD admissions procedure 2022-2023 Department of CSE, IIT Bombay

MS by Research
Ph.D.

MS Admissions Process 2022 (for TA+RAP)

1. All applicants meeting the eligibility criteria (https://www.iitb.ac.in/newacadhome/Revisedadvertisement2022.pdf) and having a GATE score higher than the cutoffs (GN/EWS>=700, OBC-NC>=630, SC/ST/PD >=467) in their respective categories are shortlisted for the written test. Even if you (the applicant) do not get a letter or email about the shortlisting, you may appear for the test if you are eligible and meet the GATE score cutoff.
2. All shortlisted candidates **MUST** take a mock test on **Apr 24**, **2022**. You can attempt the mock test anytime during the day on Apr 24. This is mandatory for anyone to attend the final written test on **May 02, 2022**. **Absolutely no exceptions will be entertained in this regard.**

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the interview, **both of which will be online**. IIT Bombay takes no responsibility for any resources that applicants need for the online test/interview. You are not allowed to use mobile phones to take the test.

4. The test (mock and actual) will be administered via CodeTantra. More details about this interface will be posted here soon. It is the sole responsibility of the applicants to familiarize themselves with CodeTantra using material provided via the links.

5. The final written test will take place on **May 02,2022 : 9 am - 12 noon**. Click here for the syllabus and study material for the test: https://docs.google.com/document/d/e/2PACX-1vRXbZ8xxMecsgjsAt9mbin00QWGbMmm9xJ2--IDBtpyj1v43_no7_--DJNK835zJCzkSJZW8cE6XEdH_/pub . *You must be logged in an hour before the test begins (by 8 am) to ensure the proctoring environment is set up correctly. We will disable all logins by 8.15am and not entertain any excuses*.

6. For TA positions, applicants must submit their choice for an area a-c below. Your preferences (for TA positions) will be collected via a Google form sent to all candidates eligible to take the test (you can expect the form by April 24, 2022)

   a. **<u>Intelligent Systems Stream</u>** (Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Vision,

Computer Architecture, Databases, Compilers, Operating Systems, Distributed systems, Programming Languages, Software Engineering, Embedded Systems, Security)

c. **Theoretical Systems Stream** (Algorithms, Complexity Theory, Combinatorial Optimization, Cryptography, Formal methods)

The written test will have questions on each stream, across various sections. See https://www.cse.iitb.ac.in/admission/ms22.php for details regarding the background material you should prepare for the test, for each stream, as well as the syllabus. The test will be for 3 hours. **Only** questions pertaining to your choice of the stream will be graded for you.

7. Shortlisting for the interview is based on 30% written test score + 70% GATE score.

8. Shortlist for interviews will be announced by EOD on **May 04,2022**.

9. **Your preferences (for TA positions) will be used to schedule interviews based on available positions in each stream divided in the ratio: 40.5 % GN, 10% EWS, 27% OBC, 15% SC, 7.5% ST.**

d. **Intelligent Systems : 11** (4-GN, 1-EWS, 3-OBC, 2-SC, 1-ST)

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e. Each stream has a fixed number of interview slots
Intelligent Systems : 33 (13-GN, 3-EWS, 9-OBC,5-SC,3-ST)
Computing Systems : 45 (18-GN, 5-EWS, 12-OBC, 7-SC, 3-ST)
Theoretical Systems : 20 (8-GN, 2-EWS, 5-OBC, 3-SC, 2-ST)

f. If you (the applicant) are not among the top k applicants (k=33 for Intelligent Systems, k=45 for Computing Systems and k=20 for Theoretical Systems) of your chosen stream, then you will **NOT** be interviewed. Note that this might result in some candidates with a lower score than you in getting interviewed, since they chose a different stream, where they were in the top k candidates for that stream.

g. The implication of choosing a stream extends beyond interviews for admission - if admitted and you join, it implies that your research will be in your chosen stream. This is the primary difference between MTech TA positions and MS by Research TA positions. In the former, you have the flexibility of finding a guide in any research area in the department while, as an MS by Research TA, you are bound to the stream you

chance to submit the google form. We will not consider requests for change of stream.

10. Apart from the above stream specific interviews which are compulsory, we also have **RAP projects**. The **available RAP positions** will be updated here (https://www.cse.iitb.ac.in/admission/msproj22.php). In case you are selected under RAP, you commit to working under the respective faculty for your project, and advisor pairing happens at the time of admission itself.

11. Any unfilled seats will be given to MTech TA positions and will be filled via direct admission based on GATE score.

12. The **interviews for the candidates who made the shortlist** will be conducted in the online mode **May 05-12, 2022**. Details of this (zoom/google meet etc) will be communicated to applicants by the CSE office. The final results will be available on the COAP portal by M.Tech second round offers.

PhD Admissions 2022-2023

1. All applicants meeting the eligibility criteria (https://www.iitb.ac.in/newacadhome/Revisedadvertisement2022.pdf) in their respective categories are shortlisted for the written test which will be conducted online on May 02, 2022 using CodeTantra.

26=10(GN)+3(EWS)+7(OBC)+4(SC)+2(ST)

3. All shortlisted applicants **must** take a mock test. You can take the mock test anytime during the day on **Apr 24, 2022**. This is mandatory for anyone to attend the test. **Absolutely no exceptions will be entertained in this regard.** It is solely the applicant's responsibility to arrange for a stable internet connection and a laptop/desktop with a working webcam, mic and speakers from which you can take the test. We will not permit the test to be taken on a mobile phone.

4. The test (mock and actual) will be administered via CodeTantra. More details about the CodeTantra interface will be posted here soon.

5. The actual written test is on **May 02 : 09am - 12 noon**. Click here for details about the test syllabus and study material: https://docs.google.com/document/d/e/2PACX-1vRXbZ8xxMecsgjsAt9mbin00QWGbMmm9xJ2--lDBtpyj1v43_no7_-DJNK835zJCzkSJZW8cE6XEdH_/pub . *Shortlisted applicants must be logged in an hour before the test begins (by 8am) to ensure the proctoring environment is set up correctly.* We will disable all logins by 8.15am and not entertain any excuses.

6. Applicants must give preferences of 2 panels (see the 8 panels specified on page 1 of https://www.cse.iitb.ac.in/admission/pg.php). **Your panel preferences will be collected via a google form by April 28, 2022 from all candidates eligible to write the test on May 02.** The implication of choosing a panel are :

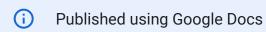   a. The written test will be for 3 hours. It will

Therefore your chances of finding a Ph.D. guide are tied to doing well in your chosen panels. Hence **choose your panels carefully. We will not allow any changes once the form is submitted.**

7. We will shortlist for the interview based on two criteria: A) The written test and B) application assessment material (including a statement of purpose and any other achievements or awards that the applicant would like to highlight). The latter will be collected from candidates via a Google form by April 15, 2022. Qualifying marks to be shortlisted for interviews is 30/100 (where 80% comes from the written test and 20% comes from the application assessment material).

8. The **interviews for the candidates who made the shortlist** will be conducted online during the period **May 06-25th, 2022**. Details of this (zoom/google meet etc) will be communicated to applicants by the CSE office. The results will be available on the IITB portal by May 30,2022.

9. We also have some **RAP positions** that will be updated here: https://www.cse.iitb.ac.in/admission/phdproj22.php. In case you are selected under RAP, you commit to working under the respective faculty for your PhD, and advisor pairing happens at the time of admission itself.

10. Please go through the following available fellowships to check if

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