

ELIGIBILITY AND SELECTION PROCEDURE

1 Academic Programmes: Eligibility and Selection Procedure

Eligibility conditions, as mentioned below for each of the academic programmes, reflect only minimum requirements to apply for a particular programme. Merely satisfying the eligibility conditions does not guarantee selection into the programme.

For all the programmes described below, those who have completed or are due to complete the qualifying examinations for which results are not yet published, may also apply for admission. If selected, their admission to an academic programme will be provisional pending the announcement of results. In such cases, however, their applications may be cancelled if the final examinations are not completed before **July 31, 2018**. The institute may decide to relax this date at its discretion.

If a student had failed in a programme of the Institute and had been asked to discontinue, he/she is not eligible for readmission to that programme.

1.1 Bachelor of Statistics (Honours) [B Stat (Hons)]

Eligibility In order to be eligible for admission to this programme, an applicant must have successfully completed 10+2 years of Higher Secondary Education (or its equivalent) with Mathematics and English as subjects.

Selection Procedure All applicants for this programme, except the INMO AWARDEES (see next paragraph), will have to appear for two written tests comprising multiple-choice type and descriptive questions in Mathematics at the 10+2 level. Based on performance in the written tests, a number of candidates will be called for interviews.

The written test is **waived** for applicants who have been selected as **INMO AWARDEES** to participate in the International Mathematics Olympiad Training Camp (IMOTC) in the current year or in any previous year, based on their performance in the Indian National Mathematics Olympiad (INMO) conducted by the National Board of Higher Mathematics, Department of Atomic Energy, Government of India. Such candidates will be directly called for interviews.

The final selection of candidates for admission to the programme is based on performance in the two written tests (unless waived) as well as the interviews. The final list of candidates selected for admission is announced after completion of all the interviews.

A candidate who has applied for the B Stat (Hons) programme shall have only **one subsequent option to switch to the B Math (Hons) programme** of the Institute. Candidates who wish to exercise this option must inform the Dean of Studies of their decisions either in writing or by sending an e-mail to admissionsupport@isical.ac.in between **March 15 and April 5, 2018**. No request after this date will be entertained.

1.2 Bachelor of Mathematics (Honours) [B Math (Hons)]

Eligibility Same as B Stat (Hons) programme.

Selection Procedure Same as B Stat (Hons) programme.

A candidate who has applied for the B Math (Hons) programme shall have only **one subsequent option to switch to the B Stat (Hons) programme** of the Institute. Candidates who wish to exercise this option must inform the Dean of Studies of their decisions either in writing or by sending an e-mail to admissionsupport@isical.ac.in between **March 15 and April 5, 2018**. No request after this date will be entertained.

1.3 Master of Statistics [M Stat]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a three-year Bachelor's degree or a BE/B Tech degree with Statistics as a subject, or
- a B Math degree from ISI, or
- a Post-Graduate Diploma in Statistical Methods and Analytics from ISI.

Selection Procedure Students with B Stat (Hons) degree from ISI are offered direct admission to this programme without any selection test or interview. For all other eligible candidates, including students with a B Stat (Pass) degree from ISI, selection for admission to this programme is based on performance in written admission tests and subsequent interview.

1.4 Master of Mathematics [M Math]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a three year Bachelor's degree in Mathematics, or
- a BE/B Tech Degree, with Mathematics as a subject, or
- a B Stat degree from ISI.

Selection Procedure Students with B Math (Hons) degree from ISI are offered direct admission to this programme without any selection test or interview. For all other eligible candidates, including students with B Math (Pass) degree from ISI, selection for admission to the programme is based on performance in written admission tests and subsequent interview.

1.5 Master of Science in Quantitative Economics [MS (QE)]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a Bachelor's degree (of at least 3-year duration) in any discipline and
- have passed the 12th standard examination with Mathematics as a subject.

Selection Procedure Selection of candidates to this programme will be based on performance in written tests and subsequent interview.

1.6 Master of Science in Quality Management Science [MS (QMS)]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a three-year Bachelor's degree with Mathematics as a subject, or
- a BE/ B Tech degree in any discipline.

Selection Procedure Selection of candidates to this programme, including the sponsored ones, will be based on performance in written tests and subsequent interview.

There is, however, a provision for **sponsorship** by government, semi-government, public sector undertakings, autonomous institutions and commercial/ industrial organizations, which can sponsor candidates from their establishments, provided they satisfy the eligibility requirements. The Institute, at its discretion, may apply a different criterion for such candidates. A candidate would be considered sponsored **only** if the employer gives him/her leave and full salary for the entire duration of the programme. Sponsored candidates will not receive any stipend and their sponsors will have to pay a tuition fee of Rs. 20,000/- per year.

1.7 Master of Science in Library and Information Science [MS (LIS)]

Eligibility In order to be eligible for admission to this programme, an applicant must have a three-year Bachelor's degree in any discipline.

Selection Procedure Selection of candidates will be based on performance in written tests and subsequent interview.

1.8 Master of Technology in Computer Science [M Tech (CS)]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a Master's degree in Mathematics/ Statistics/ Physics/ Electronic Science/ Computer Science/ Computer Applications/ Information Technology, or
- a BE/ B Tech degree or any other qualification considered equivalent (such as AMIE or, GRAD-IETE or, DOEACC 'B' Level).

Selection Procedure A candidate is admitted to this programme through written tests and interview. A few candidates may be sponsored by government, semi-government, public sector undertakings and autonomous institutions but such candidates will also be admitted through the ISI Admission Test. The Institute at its discretion may apply a different criterion for such candidates. A candidate would be considered sponsored **only if** he/she is granted leave and full salary by the employer for the entire duration of the programme. Sponsored candidates will not receive any stipend and their sponsors will have to pay a tuition fee of Rs 20,000/- per year.

A candidate with a valid GATE score above a threshold (to be decided by the Selection Committee) in his/her own subject will be directly called for interview. Final selection of such candidates would be based on their GATE scores and their performance in the interview. These candidates are required to apply, like all other candidates, in the prescribed application form.

1.9 Master of Technology in Cryptology and Security [M Tech (CrS)]

Eligibility Same as M Tech in Computer Science programme.

Selection Procedure Same as M Tech in Computer Science programme.

1.10 Master of Technology in Quality, Reliability & Operations Research [M Tech (QROR)]

Eligibility In order to be eligible for admission to this programme, an applicant must have

- (i) a Master's Degree in Statistics with Physics and Chemistry at the (10+2) level; or
- (ii) a Master's Degree in Mathematics with Statistics as a subject at undergraduate or post-graduate level, and Physics and Chemistry at the (10+2) level; or
- (iii) a BE/B Tech degree or any other qualification considered equivalent (such as AMIE).

The programme is offered in two streams:

- **Statistics Stream** for candidates with qualifications (i) or (ii) mentioned above;
- **Engineering Stream** for candidates with an undergraduate degree in Engineering or Technology as in (iii) above.

Selection Procedure All candidates, including sponsored ones, are admitted through written tests and interview. For admission to this programme, valid GATE score is not necessary, and candidates with valid GATE scores also must take the written tests. There is a provision for sponsorship by government, semi-government, public sector undertakings, autonomous institutions and industrial organisations, which can sponsor candidates from their establishments, provided they satisfy the eligibility requirements. The Institute, at its discretion, may apply a different criterion for such candidates. A candidate would be considered sponsored **only if** the employer gives him/her leave and full salary for the entire duration of the programme. Sponsored candidates will not receive any stipend and their sponsors will have to pay a tuition fee of Rs 20,000/- per year.

1.11 Postgraduate Diploma in Statistical Methods & Analytics

Eligibility In order to be eligible for admission to this programme, an applicant must have a domicile certificate of North-Eastern states from a recognised authority, and has one of the following:

- a three-year Bachelor's Degree in any discipline with Mathematics as a subject;
- a BE/B Tech degree or any other qualification considered equivalent (such as AMIE).

Selection Procedure Selection is based on the performance in written test and interview. **Fifty percent (50%) of the total number of seats is reserved for the domiciled students of the North-Eastern states of India. For taking admission in these seats, the domiciled candidates of the North-Eastern states of India must have domicile certificate of North-Eastern states from a recognized authority.**

1.12 Postgraduate Diploma in Computer Applications

Eligibility In order to be eligible for admission to this programme, an applicant must have

- a three-year Bachelor's Degree in any discipline with Mathematics as a subject.

Selection Procedure Selection is based on the performance in written test and interview.

1.13 Postgraduate Diploma in Business Analytics

See <http://www.isical.ac.in/~pgdba/> for further details.

1.14 Junior Research Fellowships (JRF)

1.14.1 JRF in Statistics, Mathematics, Quantitative Economics, Computer Science, and Quality, Reliability & Operations Research (QROR)

Eligibility

Statistics In order to be eligible for admission to this programme, an applicant must have

- an M Stat degree from ISI, or
- an MA/M Sc or equivalent degree in Statistics.

Mathematics In order to be eligible for admission to this programme, an applicant must have

- an M Math/ M Stat degree from ISI, or
- an MA/ M Sc or equivalent degree in Mathematics, or
- an ME/ M Tech degree or equivalent with Mathematics as a subject.

Quantitative Economics In order to be eligible for admission to this programme, an applicant must have

- a Master's degree in any discipline with Economics/ Mathematics/ Statistics as a subject at the undergraduate or postgraduate level.

Computer Science In order to be eligible for admission to this programme, an applicant must have

- an ME/ M Tech or equivalent degree in Electronics/ Telecommunication/ Radio Physics/ Computer Science/ Electrical Engineering/ Microwave Communications/ Information Technology/ Bioinformatics/ Biotechnology with Mathematics as a subject at the undergraduate or postgraduate level, or
- an M Sc/ MCA/ MA or equivalent degree in Physics/ Mathematics/ Applied Mathematics/ Statistics/ Electronic Sciences/ Computer Science/ Atmospheric Science/ Information Technology/ Bioinformatics/ Biotechnology with Mathematics as a subject at the undergraduate or postgraduate level, or

Quality, Reliability & Operations Research (QROR) In order to be eligible for admission to this programme, an applicant must have

- an M Tech/ ME/ MS/ M Phil or equivalent degree in Quality/ Reliability/ Operations Research, or
- an M Stat/ M Sc/ MA or equivalent degree in Mathematics/ Statistics/ Physics with Mathematics as a subject at the undergraduate or postgraduate level, or

Selection Procedure Subject to the eligibility criteria being satisfied, the selection of candidates for this programme is strictly based on merit as judged by performance in Written Test and interview.

Note: For an applicant who has obtained a Master's degree in the relevant discipline from ISI with at least 75% in the aggregate without any back-paper or compensatory examination in any course during the entire programme, and is applying within two years of graduating, the written test will be waived, and he/ she will be called directly for interview by the corresponding JRF selection committee. However, such candidates are also required to apply, like all other candidates, in the prescribed application form.

Note: Candidates who have been awarded a Junior Research Fellowship in the aforementioned research areas by NBHM/ CSIR/ UGC/ ICMR/ DST/ DBT based on a nationally conducted written Admission Test, are also required to clear the JRF admission test or an equivalent separate test conducted by the relevant JRF selection committee of the institute, if they wish to obtain a Ph D degree from ISI. The institute may conduct a separate equivalent test in November-December 2018. If any such test is held, it will be advertised in the website of the Institute.

1.14.2 Research Fellowships (JRF) in Other Subjects

Scope The Institute also offers Junior Research Fellowships in several areas of the Natural Sciences and the Social Sciences. However, candidates working for Ph D in any

area other than the five mentioned in page no. 6, need to register with other Universities/Institutes for their Ph D degree. The areas in which the Institute wants to recruit JRFs this year and the respective eligibility conditions for applying for admission are as follows:

(a) Physics

The areas are: Physics.

Eligibility: an M Sc degree in Physics.

(b) Geology

The areas are: Vertebrate Palaeontology.

Eligibility: an M Sc degree in Geology or equivalent.

(c) Biological Science

The area is: Human Genetics.

Eligibility: an M Sc degree in Biochemistry/ Biophysics/ Molecular Biology/ Genetics/ Neurosciences/ Biotechnology/ Zoology.

(g) Library and Information Science

The area is: Library and Information Science.

Eligibility: MS (LIS) awarded by ISI or Associateship in Documentation and Information Science (=ADIS, awarded by ISI or NISCAIR/INSDOC) or its equivalent degree (such as Master's degree in Library and Information Science from any Indian/Foreign University).

Centres The names of the centres along with the respective subjects in which research fellowships in other subjects are being offered this year are given below.

Selection Procedure Subject to satisfying the eligibility criteria, the selection of candidates for JRF is strictly based on merit as judged by their performance in Written Tests and interview. Past academic records may also be taken into consideration¹.

Note: Candidates who have been awarded a Junior Research Fellowship by NBHM/ CSIR/ UGC/ ICMR/ DST/ DBT based on a nationally conducted written Admission Test, shall also be required to clear the JRF admission test.

¹For an applicant receiving education outside of India, whether the applicant satisfies the eligibility criteria for a programme will be decided on a case-by-case basis.