# PROSPECTUS 2024-25

# INDIAN STATISTICAL INSTITUTE

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STATISTICAL
INDIAN
INSTITUTE
मिन्नेचैक्यास दर्शनम्
UNITY IN DIVERSITY

## MARCH 2024

https://www.isical.ac.in/~admission/

# Contents

## List of Abbreviations

| | |
|---|---|
| Agri Science | Agricultural Science |
| BE | Bachelor of Engineering |
| B Math | Bachelor of Mathematics |
| B Sc | Bachelor of Science |
| B Stat | Bachelor of Statistics |
| B SDS | Bachelor of Statistical Data Science |
| B Tech | Bachelor of Technology |
| Comp Sc | Computer Science |
| CrS | Cryptology and Security |
| CS | Computer Science |
| CSIR | Council of Scientific & Industrial Research |
| D Sc | Doctor of Science |
| Eco | Economics |
| Elect Engg | Electrical Engineering |
| Electro | Electronics |
| Engg | Engineering |
| Env Science | Environmental science |
| EWS | Economically Weaker Section |
| GATE | Graduate Aptitude Test in Engineering |
| ISEC | International Statistical Education Centre |
| ISI | Indian Statistical Institute |
| JRF | Junior Research Fellowships |
| LIS | Library and Information Science |
| MA | Master of Arts |
| Math | Mathematics |
| MCA | Master of Computer Applications |
| MCQ | Multiple-Choice Question |
| M Math | Master of Mathematics |
| M Stat | Master of Statistics |
| M Tech | Master of Technology |
| NE Centre | North-East Centre |
| NISCAIR/INSDOC | National Institute of Science Communication and Information Resources/ Indian National Scientific Documentation Centre |
| OBC-NCL | Other Backward Classes-Non Creamy Layer |
| OR | Operations Research |
| PGD | Postgraduate Diploma |
| Ph D | Doctor of Philosophy |

| | |
|---|---|
| Phys | Physics |
| Prob | Probability |
| PGDARSMA | Postgraduate Diploma in Agricultural and Rural Management with Statistical Methods and Analytics |
| PGDAS | Postgraduate Diploma in Applied Statistics |
| PGDBA | Postgraduate Diploma in Business Analytics |
| PG Diploma | Postgraduate Diploma |
| PGDSMA | Postgraduate Diploma in Statistical Methods and Analytics |
| PwD | Persons with Disabilities |
| QE | Quantitative Economics |
| QMS | Quality Management Science |
| QROR | Quality, Reliability & Operations Research |
| RCBCCS | R.C. Bose Centre for Cryptology and Security |
| SC | Scheduled Caste |
| SQC | Statistical Quality Control |
| SRF | Senior Research Fellowships |
| SSFC | Supernumerary seats for female candidates |
| ST | Scheduled Tribes |
| Stat | Statistics |
| UGC | University Grants Commission |

# List of Tables

# 1   Introduction

The Indian Statistical Institute, known widely as ISI, was founded in 1931 by Professor Prasanta Chandra Mahalanobis. Growing out of a small Statistical Laboratory set up by Professor Mahalanobis in the Presidency College in Kolkata, the Institute soon moved into its present campus at Baranagar on the northern outskirts of Kolkata. Ever since that humble beginning, over the past nine decades, the Institute has undergone phenomenal growth and is now widely regarded as one of the leading institutions in the world as a centre for research and training in Statistics and related sciences.

In recognition of the importance of the Institute in the development and application of Statistics, the Parliament of India, in 1959, enacted the Indian Statistical Institute Act, declaring it an Institution of National Importance and empowering it to grant degrees and diplomas in Statistics. In 1995, this Act was further amended, empowering the Institute to grant degrees and diplomas also in Mathematics, Quantitative Economics, Computer Science and other subjects related to Statistics as may be determined by the Institute from time to time.

The headquarters of the Institute is located in Kolkata. However, centres of the Institute have come up over the years in other major cities. At present, the Institute has four centres operating at Delhi, Bengaluru, Chennai and Tezpur. In addition, the Institute has a branch at Giridih devoted to agricultural and sociological research and also a network of units at Coimbatore, Hyderabad, Mumbai and Pune, that are involved in activities related to Statistical Quality Control and Operations Research.

Most of the research and teaching activities of the Institute take place in its headquarters in Kolkata and in the four centres. In Kolkata, Delhi, Bengaluru and Hyderabad, the Institute has its own campus and they are equipped with hostel facility for students, residential quarters for the faculty, guest houses, and also recreational and medical facilities. The campus at Giridih has a small guest house and rudimentary hostel facilities. The relatively new centre at Chennai is still operating at temporary locations. ISI scientists working in the areas of Theoretical and Applied Statistics, Mathematics, Computer Science, Economics, Statistical Quality Control and Operations Research are located mainly in the Kolkata, Delhi, Bengaluru, Tezpur and Chennai campuses. In addition, scientists from other branches of natural and social sciences are posted at Kolkata, Chennai and Bengaluru.

A sizeable proportion of the students passing out of the Institute go on to build remarkably successful careers in research and academics. Some of the most eminent and leading researchers and academics in the fields of Statistics, Mathematics, Computer Science and Economics are alumni of the Institute. At the same time, students of the Institute who have gone into industry have also been extremely successful. Several top and well-accomplished leaders in industry are also alumni of the Institute.

For many years now, the Institute has been running a very proactive on-campus placement programme. Under the supervision of a member of the teaching faculty, this programme has been very successful in providing the aspiring students, in the final years of their respective programmes, excellent placement opportunities in some of the leading organisations in various sectors of the industry. Some of the companies

that have visited the Institute campus for recruitment in the past few years are:  AIG, Amazon, American Express, ANZ, Axis Bank, AB InVeb, AXA Life Insurance, BARC India, BCS Technology, BlackRock, Barclays Shared Services, Capital One, Citibank, Credit Suisse, Crisil, CIBIL, Citi Corp., Cummins India, Deloitte, Dr. Reddy's Lab, Dunia Finance LLC, Ernst & Young, Envestnet-Yodlee, FICO, Goldman Sachs, HSBC Technology & Services, IBM, ICICI, JP Morgan, KPMG, Mahindra Comviva, Mckinsey, Media.net, Metro, Microsoft, Narayana Hrudayalaya, Novartis, Nielsen, Petrabytes Corporation, RedBus, Reliance, Samsung, Standard Chartered, TCS Analytics, TCS Innovation Lab, United Health Group, Walmart Lab, Wells Fargo, ZS, Zendrive, etc.

Over the last several years, the Institute has been very actively pursuing institution-level collaboration that has led to Memoranda of Understanding (MOUs) with numerous universities/academic institutions as well as industrial organisations.  These MOUs range from collaborative research to research grants for students/faculty as well as student/faculty exchange programmes.  At present, the Institute has MOUs signed with, among others, the following institutions/organisations:   National Highway Authority of India, Tata Consultancy Services Ltd., EfD Secretariat at UGOT, Silicon Valley Com Foundation, Airport Authority of India, Networks Specified, Ericsson India, American Society for Quality India, IIT Madras, Szechenyi Istvan University, Hitachi India Pvt.  Ltd., Bridge and Roof Company Ltd., Infosys Ltd., National Research University, Eastern Africa Statistical Training, State University of New York, London School of Economics, BRAC-University, Tata Institute of Social Sciences, City University of Hong Kong, University of Warwick, Yokohama National University.

The Central Library of the Institute, located at Kolkata (with a network extending to two major libraries at Delhi and Bengaluru Centres and other locations of the Institute), has one of the richest collections in the country, particularly in the fields of Statistics and allied disciplines, namely, Mathematics, Economics, Computer Science, Earth Science, Life Science, Physics and Applied Mathematics, Quality Control, etc. In addition to a total volume of more than three lakhs, comprising books, bound journals, official reports/data-books, dissertations and theses, reprints, non-print materials such as CDs/floppies, microfilms and microfiches, it maintains online access to journals and all the major scientific publication databases.  It has also a separate NBHM collection funded by National Board for Higher Mathematics, Department of Atomic Energy, Government of India.  It is making endeavours to create institutional repositories using open-source software, facilitating access to indigenous resources across regions and increasing the visibility of such resources. As a part of the Central Library, the renovated Amrapali building which was the residence of the founder of the Institute, now houses the P C Mahalanobis Memorial Museum and Archives.

The Institute also runs the International Statistical Education Centre (ISEC), established in 1950, under the auspices of the Government of India.  This Centre has been providing training in Statistics to sponsored students mainly from the developing countries of the Middle-East, South and South East Asia and the Far East and from the Commonwealth countries of Africa.  The Centre also offers various short-term courses in Statistics and related subjects.

## 2   A Brief History of the Institute

The Indian Statistical Institute had its beginning in a small statistical laboratory set up by Professor Prasanta Chandra Mahalanobis in the Presidency College at Kolkata, where he was then a professor of Physics. In a meeting held on $17^{th}$ December 1931 and presided over by Sir R. N. Mookerjee, the first President of the Institute, the Indian Statistical Institute (ISI) was formally established and Prasanta Chandra Mahalanobis was appointed the Honorary Secretary. The Institute was registered on 28th April, 1932, as a non-government and non-profit learned society under the Societies' Registration Act No. XXI of 1860. The Institute is now registered under the West Bengal Societies Registration Act XXVI of 1961, amended in 1964. The major objectives of the Institute, as stated in its Memorandum of Association, are:

  (i) to promote the study and dissemination of knowledge of Statistics, to develop statistical theory and methods, and their use in research and practical applications generally, with special reference to problems of planning for national development and social welfare;

 (ii) to undertake research in various fields of natural and social sciences with a view to the mutual development of Statistics and these sciences;

(iii) to provide for, and undertake, the collection of information, investigations, projects, and operational research for purposes of planning and the improvement of efficiency of management and production.

With its humble start in a laboratory in the Presidency College, the Institute soon embarked upon a remarkable journey with enduring support from a number of distinguished personalities and devoted scholars in Kolkata. In the first two decades of its existence, which was a glorious chapter in the annals of Indian science and institution building, the ISI undertook a series of pioneering programmes involving application of Statistics in search of solutions to some of the urgent and live problems of the country. Such programmes included innovative projects on sample surveys of yield and land utilisation of crops, socio-economic after-effects of Bengal famine (1943-44) and problems of flood research, to name a few. Simultaneously, led by Professor Mahalanobis, path-breaking theoretical research was carried out by a very able group of young statisticians including R C Bose, S N Roy and C R Rao. These innovations and methodological research have since become classics in Statistics. All these activities brought laurels for the Institute in India as well as abroad.

Over a period of several decades since its inception, the Institute made steady strides to establish its identity as a pioneering organisation nationally as well as internationally. Some of the principal achievements of this period include

  (i) the establishment of a full-fledged research and training school in Statistics and Probability with applications in natural and social sciences,

(ii) the publication of *Sankhyā*, the first international journal of Statistics in India,

(iii) the inception of a National Sample Survey wing, engaging in comprehensive socio-economic data collection for the nation,

(iv) the creation of a string of Statistical Quality Control units for promoting the quality movement at various industrial centres in the country, and

(v) collaboration with the International Statistical Institute to train Government statisticians from Asia and Africa.

One of the most significant contributions of the institute in India's nation-building came when, in 1954, Pandit Jawaharlal Nehru, the then Prime Minister of India, entrusted Professor Mahalanobis and ISI with the responsibility of preparing the draft Second Five-Year Plan for the country. The institute established a planning wing dedicated to the formulation of the Second Five-Year Plan of India. The draft submitted by Prasanta Chandra Mahalanobis and the planning models formulated by him and his colleagues have since been regarded as major contributions to economic planning in India.

As another remarkable achievement, the Institute, in 1956, installed the first electronic computer in the country. In 1961, the ISI, in collaboration with Jadavpur University, undertook the design, development and fabrication of a fully transistorised digital computer, called ISI-JU-1, which was commissioned in 1966. The institute had established an Electronic Computer Laboratory that was responsible for developing

(a) the first mechanical hand computing machine,

(b) the first Analog computer,

(c) the first Punched Card storing machine, and

(d) the first Solid State Computer in India.

The Institute, from its formative period till the recent time, received as guests many eminent scientists, including Nobel Laureates. Besides Sir Ronald A Fisher, JBS Haldane and Walter A Shewhart, the luminaries included Frederic and Irene Curie, Neils Bohr, AN Kolmogorov, PMS Blackett, JD Bernal, Joan Robinson and Genechi Taguchi. In recent times, the visit of Joseph E Stiglitz, James A Mirrlees, Eric S Maskin, Ei-Ichi Negishi, Cédric Villani, a 2010 Fields Medallist, and SRS Varadhan, the 2007 Abel Prize winner for his contributions to probability theory and an alumnus of the institute, may be especially mentioned.

The Institute has always had its headquarters in Kolkata since its inception. Later, the Delhi Centre, initially housed within the Planning Commission premises, was started in 1974, and shifted to its present campus in 1975. The Bengaluru Centre was conceived by Professor P C Mahalanobis during 1960s. With

the Statistical Quality Control unit functioning in Bengaluru from 1956, and Documentation Research and Training Centre from 1962, Professor Mahalanobis thought of starting a centre of ISI at Bengaluru around the mid-1960s. However, the process got delayed after Professor Mahalanobis' death in 1972 and the activities of the Bengaluru Centre started in September 1978 in a rented building under the Directorship of Professor G Kallianpur. The Bengaluru Centre was formally declared as a centre of ISI in September 1996. The newly created Chennai Centre of the Institute, which came into being on July 26, 2008, and the North-East Centre at Tezpur, Assam, which was inaugurated on July 23, 2011, are expected to carry out research in theory and applications of Statistics in the new areas of natural and social sciences. The NE Centre is also committed to cater to the statistical needs of the North-Eastern states, including training statistical personnel.

The formal empowerment of the Institute for awarding of degrees came in December 1959, when Pandit Jawaharlal Nehru piloted in the Parliament the enactment of the Indian Statistical Institute Act of 1959, which designated ISI as an **Institution of National Importance**. Its activities steadily grew, existing interests became more broad-based and a number of science units were created in the interest of live interaction between Statistics and natural and social sciences. Empowered by the Act to award degrees, the Institute introduced the Bachelor of Statistics (Honours) and Master of Statistics courses in 1960 under the guidance of Professor Mahalanobis and stalwarts like JBS Haldane and Satyendra Nath Bose who was the President of the Institute for a long period of time, with the philosophy that the academic training of a statistician should encompass the basic principles of Statistics along with its theoretical and methodological development, not merely in abstract formulation, but also in relation to concrete problems arising from natural and social sciences. The Institute also introduced research programmes leading to the Ph D degree from the Institute. After the subsequent amendment of the Indian Statistical Institute Act in 1995, broadening its scope of degree-awarding, the institute introduced other degree programmes, namely, Master of Science (Quantitative Economics) (in 1996-97), Bachelor of Mathematics (Honours) (in 2000-01), Master of Mathematics (in 2003-04).

A one-year Diploma in Computer Science was started in the Institute in 1966. This was upgraded to a two-year Diploma in 1978, which evolved into the current M Tech programme in Computer Science in 1981, the first such programme in the country.

The Institute initiated the use of Statistical Quality Control & Operations Research in India in the early fifties and started developing these fields through theoretical and applied research, practical training in industry and consultancy assignments. To meet the growing needs from the industry, the institute offered a PG Diploma course in SQC & OR and also offered SQC & OR (later ISOR) as a specialization in the M Stat programme. The increased awareness since late eighties, that SQC & OR techniques are of immense help in the development of the industrial sector, has led to the introduction of a two-year full-time M Tech programme in Quality, Reliability & Operations Research in Kolkata in 1989.

The Institute has also been offering a course leading to Associateship in Documentation & Information

Science at the Bengaluru Centre since 1965-66. This course has been upgraded to a Master's level programme, called the Master of Science in Library & Information Science [MS (LIS)], since 2008-09.

The R.C. Bose Centre for Cryptology and Security (RCBCCS) was established in ISI in the year 2012 with the aim of promoting interdisciplinary research in Mathematics, Computer Science and Statistics towards furtherance of teaching, research as well as training and development in Cryptology and Cyber Security. Following a request from the National Security Council Secretariat, an M Tech programme in Cryptology and Security was started at this Centre in 2018.

In addition, the programmes Postgraduate Diploma in Statistical Methods and Analytics [PGDSMA], Master of Science in Quality Management Science [MS (QMS)], Postgraduate Diploma in Business Analytics [PGDBA], Postgraduate Diploma in Agricultural and Rural Management with Statistical Methods and Analytics [PGDARSMA] and Postgraduate Diploma in Applied Statistics [PGDAS] are offered by the Institute.

In an effort to teach and train students in statistical data science, the institute is launching a new four-year undergraduate course programme called **Bachelor of Statistical Data Science [B SDS]** this year, that is, the 2024-25 academic year. The non-residential programme, which is offered at multiple locations in order to be accessible to a wider group of students, focuses on applications of statistics in the industry and different branches of the sciences, while imparting a solid knowledge and understanding on statistics and probability.

# 3   Current Academic Programmes

Table 1: Academic Programmes being offered in 2024-25

| | Programme | Duration | Location |
|---|---|---|---|
| **Bachelors Degree** | B Stat (Hons) | 3 years | Kolkata |
| | B Math (Hons) | 3 years | Bengaluru |
| | B SDS (Hons) | 4 years | Kolkata, Delhi, Bengaluru |
| **Masters Degree** | M Stat[1] | 2 years | Delhi - Kolkata |
| | M Math | 2 years | Kolkata |
| | MS (QE) | 2 years | Delhi & Kolkata |
| | MS (LIS) | 2 years | Bengaluru |
| | MS (QMS) [2] | 2 years | Bengaluru - Hyderabad |
| | M Tech (CS) | 2 years | Kolkata |
| | M Tech (CrS) | 2 years | Kolkata |
| | M Tech (QROR) | 2 years | Kolkata |
| **Diploma/Certificate** | Post-graduate Diploma in Statistical Methods & Analytics | 1 year | Chennai & Tezpur |
| | Postgraduate Diploma in Agriculture & Rural Management with Statistical Methods and Analytics | 1 year | Giridih |
| | Postgraduate Diploma in Business Analytics[3] | 2 years | Kolkata |
| | Part-time Course in SQC[4] | 6 months | Bengaluru, Chennai, Hyderabad |
| | Postgraduate Diploma in Applied Statistics (Online Course) | 1 year | Coursera[5] |
| **Research Fellowships** | Junior/Senior Research Fellowship (see below for details) | upto 6+1 years | Kolkata, Delhi, Bengaluru, Tezpur Chennai, Giridih, Mumbai |

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[1]The first year classes of those selected through the Admission Test are held in Delhi.

[2]The first year classes are held in Bengaluru and the second year classes are held in Hyderabad.

[3]This programme is offered jointly with IIT Kharagpur and IIM Calcutta. Details are available at https://www.isical.ac.in/~pgdba/.

[4]For the academic year 2024-25, this programme will be notified separately, if offered.

[5]Coursera at https://www.coursera.org/degrees/statistics-data-analytics-pgdip-isi

## Research Programmes I

The Institute awards PhD degrees for research in the fields (i) Statistics, (ii) Mathematics, (iii) Quantitative Economics, (iv) Computer Science, (v) Quality, Reliability & Operations Research (QROR).

Table 2: Locations of Research Programmes I: 2024-25

| SUBJECT | CENTRE |
|---|---|
| Statistics | Kolkata, Delhi |
| Mathematics | Kolkata, Bengaluru |
| Quantitative Economics | Kolkata, Delhi, Tezpur |
| Computer Science[6] | Kolkata, Bengaluru, Chennai, Tezpur |
| Quality, Reliability & Operations Research (QROR)[7] | Bengaluru, Mumbai |

## Research Programmes II

The Institute also offers Junior Research Fellowships in several areas of Natural Sciences and Social Sciences, as mentioned in the table below. However, candidates applying for PhD in any area other than the five subjects mentioned above need to register with other Universities/Institutes for their PhD degree.

Table 3: Locations of Research Programmes II: 2024-25

| SUBJECT | CENTRE/BRANCH |
|---|---|
| Physics and Applied Mathematics | Kolkata, Bengaluru |
| Geology | Kolkata |
| Biological Science (Agriculture and Ecology) | Kolkata, Giridih, Tezpur |
| Biological Science (Human Genetics) | Kolkata |
| Linguistics | Kolkata |

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[6]A JRF (CS) assigned to Bengaluru, Tezpur or Chennai Centre may have to go to Kolkata for completing the necessary coursework.

[7]A JRF (QROR) assigned to Bengaluru or Mumbai Centre may have to go to Kolkata for completing the necessary coursework.

# 4   Admission Channels

Some of the Academic Programmes have more than one channel of admission. The default Channel is referred to as the ISI Test Channel. Admission through ISI Test Channel is conducted through a Written Admission Test, followed by an Interview wherever applicable.

Each Channel has a designated number of seats. The seats may be of two types: Regular and Supernumerary. Seats in the ISI Test Channel are Regular, except in the B Stat and the B Math programmes, in which there are supernumerary seats for female candidates. Reservation Policy is applicable to all Regular seats and supernumerary seats for female candidates. Channels other than the ISI Test Channel are referred to as Parallel Test Channels. The programmes for which there are one or more Parallel Channel(s) of admission are listed in the table below.

Table 4: Programmes with Parallel Test Channels

| Sr. No. | Programme Names | Parallel Channel Names | Type of Seats |
|---|---|---|---|
| 1. | B. Math and B. Stat | INMO Channel | Supernumerary |
| 2. | MS (QMS) | ISI Test Channel for Sponsored Candidates | Supernumerary |
| 3. | M. Tech (QROR) | (a) ISI Test Channel for Sponsored Candidates | Supernumerary |
|  |  | (b) Channel for GoI Sponsored candidates | Supernumerary |
| 4. | M. Tech (CS) | (a) GATE Channel | (a) Regular |
|  |  | (b) ISI Test Channel for Sponsored Candidates | (b) Supernumerary |
| 5. | M. Tech (CrS) | (a) GATE Channel | (a) Regular |
|  |  | (b) ISI Test Channel for Sponsored Candidates | (b) Supernumerary |
|  |  | (c) Channel for GoI Sponsored candidates | (c) Supernumerary |
| 6. | JRF in Mathematics, Quantitative Economics and Computer Science | Channel for ISI Master Students | Regular |
| 7. | PG Diploma in Statistical Methods and Analytics | ISI Test Channel for domiciles of the NE States | Regular |

There are no Written Admission Test(s) for the parallel channels other than the ISI Test Channels for Sponsored Candidates and the ISI Test Channel for domiciles of the North East States. For detailed information on each Channel of Admission, refer to the respective programmes in Section 7.

# 5   Number of Seats

Table 5: Number of seats: Non-JRF programmes (2024-25)

| Sl.No. | Programme | Total | | GEN | OBC-NCL | SC | ST | EWS | GEN-PwD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | B Stat | Gender-neutral seats | 63 | 23 | 17 | 9 | 5 | 6 | 3 |
| | | SSFC[‡] | 16 | 6 | 5 | 2 | 1 | 1 | 1 |
| | | INMO Channel | 5 | - | - | - | - | - | - |
| 2 | B Math | Gender-neutral seats | 63 | 23 | 17 | 9 | 5 | 6 | 3 |
| | | SSFC[‡] | 16 | 6 | 5 | 2 | 1 | 1 | 1 |
| | | INMO Channel | 5 | - | - | - | - | - | - |
| 3 | B SDS | Kolkata | 25 | | | | | | |
| | | Delhi | 25 | | | | | | |
| | | Bengaluru | 25 | | | | | | |
| | | Total | 75 | 29 | 20 | 12 | 5 | 7 | 2 |
| 4 | M Stat | | 38* | 14 | 10 | 6 | 3 | 3 | 2 |
| 5 | M Math | | 36* | 13 | 10 | 5 | 3 | 3 | 2 |
| 6 | MS QE | Delhi | 35 | | | | | | |
| | | Kolkata | 21 | | | | | | |
| | | Total | 56 | 21 | 15 | 8 | 4 | 5 | 3 |
| 7 | MS QMS | ISI Test Channel | 20 | 7 | 5 | 3 | 2 | 2 | 1 |
| | | Sponsored Candidates | 2 | - | - | - | - | - | - |
| 8 | MS LIS | | 12 | 4 | 3 | 2 | 1 | 1 | 1 |
| 9 | M Tech CS | ISI Test Channel | 30 | 11 | 8 | 5 | 2 | 3 | 1 |
| | | GATE Channel[§] | 15 | 6 | 4 | 2 | 1 | 1 | 1 |
| | | Sponsored Candidates | 3 | - | - | - | - | - | - |
| 10 | M Tech CrS | ISI Test Channel | 20 | 7 | 5 | 3 | 2 | 2 | 1 |
| | | GATE Channel[§] | 5 | 3 | 1 | 1 | | | |
| | | Sponsored Candidates | 2 | - | - | - | - | - | - |
| | | GoI Sponsored[@] | 2 | - | - | - | - | - | - |
| 11 | M Tech QROR | ISI Test Channel | 32 | 12 | 9 | 5 | 2 | 3 | 1 |
| | | Sponsored Candidates | 3 | - | - | - | - | - | - |
| | | GoI Sponsored[@] | 6 | - | - | - | - | - | - |
| 12 | PG DSMA | Chennai | 25 | | | | | | |
| | | Tezpur | 18 | | | | | | |
| | | Total | 43 | 16 | 12 | 7 | 3 | 3 | 2 |
| | | Domicile Channel[††] | 18 | 7 | 5 | 3 | 1 | 1 | 1 |
| 13 | PG DARSMA | | 18 | 7 | 5 | 3 | 1 | 1 | 1 |
| 14 | PG DAS | (Online) | 30** | 12 | 8 | 4 | 2 | 3 | 1 |

*Excludes the number of students getting direct admission from B Stat/ B Math

**Excludes the number of students admitted through Coursera and not getting tuition waiver.

@ GoI sponsored candidates to be admitted from the services of Government of India (refer to page no. 25).

§The GATE Channel seats in a particular category, if unfilled, may be converted to ISI Test Channel seats in that category.

††Reserved for domiciled candidates of the North-East states of India.

‡Supernumerary seats for female candidates.

Table 6: Number of seats: Junior Research Fellowship (JRF) programmes (2024-25)

| S.No. | Programme | Channel | Total |
|-------|-----------|---------|-------|
| 1 | JRF in Statistics | ISI Test Channel | 9 |
| 2 | JRF in Mathematics | ISI Test Channel | 8 |
|   |   | Channel for ISI Master Students* | 2 |
| 3 | JRF in Quantitative Economics | ISI Test Channel | 7 |
|   |   | Channel for ISI Master Students* | 1 |
| 4 | JRF in Computer Science | ISI Test Channel | 18 |
|   |   | Channel for ISI Master Students* | 2 |
| 5 | JRF in Quality Reliability and Operations Research | ISI Test Channel | 4 |
| 6 | JRF in Physics and Applied Mathematics | ISI Test Channel | 6 |
| 7 | JRF in Geology | ISI Test Channel | 3 |
| 8 | JRF in Biological Science (Agriculture and Ecology) | ISI Test Channel | 3 |
| 9 | JRF in Biological Science (Human Genetics) | ISI Test Channel | 1 |
| 10 | JRF in Linguistics | ISI Test Channel | 1 |

*Seats belonging to the Channel for ISI Master students, if remain unfilled, will be transferred to ISI Test Channel.

The number of seats allocated to each category of applicants in different programmes of the Institute is indicated in the above two tables in accordance with the Reservation Policy. The selection of candidates for the allocated seats will take place according to the Admissions rules of the Institute for JRF and non-JRF applicants. If a supernumerary seat cannot be filled, it will remain vacant.

The seats in the Junior Research Fellowship programmes are distributed over different locations of the institute. A selected candidate will be placed at one of the centres depending on the Admission rules of the institute for JRFs. These seats **exclude** those candidates who may be selected from awardees of external junior research fellowships in the above disciplines.

# 6  Procedure of Selection and Admission

Admission to the academic programmes of the Indian Statistical Institute is based strictly on the merit of the candidates as judged from their performance in the corresponding admission tests and interviews as applicable under the Selection Policy for non-JRF and JRF. Their past academic records may also be taken into account for this purpose. The admission tests are held at a number of centres in India. The next section gives details of scope, eligibility criteria and selection procedures for the programmes offered. If at any stage of the selection process it is found that a candidate does not satisfy the eligibility criteria, his/her application will not be processed any further.

**If a student is asked to discontinue from a programme after being admitted, for having failed or on any disciplinary ground, he/she is not eligible for readmission to the same programme.**

For some programmes, there is a provision for employers to sponsor suitable candidates employed by them. Details of this scheme are given separately under the appropriate programmes.

The decision of the Institute in all admission-related matters is final. Canvassing in any form disqualifies a candidate from being selected. The Final Rank-ordered Merit Lists as well as results of various rounds of counselling for admission (see Selection Policy as well as Admission Rules) are announced on the website of the institute at https://www.isical.ac.in/~admission.

In case of interviews (if applicable), the Institute will provide travel support to SC/ST candidates and economically backward candidates for attending the interview provided they are shortlisted for interview. The candidates will be provided sleeper class rail or bus fare by the shortest route for attending interview. A candidate must have an SC/ST certificate or a BPL card in order to be eligible for the support.

**For admission to all its programmes, the Institute follows a reservation policy consistent with the national policy on reservation for candidates from the Scheduled Caste (SC), Scheduled Tribe (ST), Other Backward Classes - non creamy layer (OBC-NCL) categories, Persons with Disabilities (PwD) and Economically Weaker Sections (EWS) (collectively referred to as reserved categories). Furthermore, there are Supernumerary Seats for Female Candidates (SSFC) in the B Stat and B Math programmes.**

**Note: Syllabi as well as sample questions for the Admission tests of the academic programmes being offered by ISI in the current year can be downloaded from the ISI admission portal https://www.isical.ac.in/~admission/.**

# 7    Academic Programmes: Scope, Eligibility and Selection Procedure

Eligibility conditions, as mentioned below for each of the academic programmes, reflect only minimum requirements to apply to 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, 2024**. The institute may decide to relax this date at its discretion.

## 7.1    Bachelor of Statistics (Honours) [B Stat (Hons)]

**Scope**    This **three-year** degree programme offers comprehensive instruction in the theory, methods and application of Statistics, in addition to several areas of Mathematics and some basic areas of Computer Science. It also offers optional courses in some other subjects. It is so designed that, on successful completion, the students will be able to pursue higher studies in areas of Statistics and Mathematics, as well as Computer Science, Economics and allied fields, or take up careers as Statisticians in research institutions and scientific laboratories, government departments or industries. This programme is offered only at **Kolkata**.

**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. Please refer to the Selection Policy for details.

**INMO Channel of Admission**    There is a separate provision for applicants who have been selected as **INMO AWARDEES** to participate in the International Mathematics Olympiad Training Camp (IMOTC) in the years 2023 and 2024 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 are also required to apply through the Application Portal.

The number of seats for **INMO AWARDEES** is supernumerary, subject to a maximum of 5 seats. There will be no Written Test, and the selection to these supernumerary seats will be based on interview. **Merely holding an INMO Certificate of Merit from Homi Bhaba Centre for Science Education (HBCSE) or clearing any Math Olympiad organised by any other organisation will not make a candidate eligible for these supernumerary seats**.

## 7.2　Bachelor of Mathematics (Honours) [B Math (Hons)]

**Scope**　This **three-year** degree programme offers comprehensive instruction in basic Mathematics along with basic courses in Probability, Statistics, Computing and Physics. It is so designed that, on successful completion, the students will be able to pursue higher studies in the areas of Mathematics, Statistics, Computer Science, Mathematical Physics, etc., or take up a career in applications of Mathematics. This programme is offered only at **Bengaluru**.

**Eligibility**　Same as that of the B Stat (Hons) programme.

**Selection Procedure**　Same as that of the B Stat (Hons) programme.

**INMO Channel of Admission**　Same as that for the B Stat (Hons) programme.

## 7.3　Bachelor of Statistical Data Science (Honours) [B SDS (Hons)]

**Scope**　This four-year Bachelor (Hons.) programme on Statistical Data Science focuses on statistical methodologies, with emphasis on statistical machine learning, computational statistics and data analytics. The focus will be on applications of statistics in industry and different branches of sciences, with knowledge and understanding of statistics and probability. On successful completion, students are expected to be placed in industry, finance and banking sectors and other Govt./Non-Govt. sectors. They will be also able to pursue higher studies.

There is an exit option after three years. Students leaving the program after successful completion of the third year will receive the **Bachelor of Statistical Data Science degree**, but without the Honours designation.

Students completing the four-year B SDS (Hons.) program can opt for an extra year of course work, and those successfully completing the five-year program will receive the **Integrated Masters Degree** in Statistical Data Science.

The program will be concurrently offered in three centres of the institute namely, **Kolkata, Delhi, Bengaluru**. **The courses will be taught in the hybrid mode** with the teacher being present in one of

the centres and the other centres connected by video conferencing.

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

**Selection Procedure**   Each candidate applying for admission to this programme has to take a selection test comprising of objective type questions in Mathematics at the Higher Secondary level (10+2 years programme). The level of the test will be similar to the JEE Mathematics test.

Please refer to the Selection Policy for details.

## 7.4   Master of Statistics [M Stat]

**Scope**   This **two-year** programme offers advanced-level training in the theory, methods and applications of Statistics along with specialised training in selected areas of Statistics and allied fields. On successful completion of this programme, students will be able to pursue an academic/research career in Statistics, Mathematics, Economics, Computer Science and allied fields, depending on their chosen area of specialization. They will also be able to work competently as Statisticians and specialists in research institutions and scientific laboratories, government departments or industries. This programme is offered at **Delhi** and **Kolkata**. Students selected after clearing the Admission Test do the first year of the programme in **Delhi** and the second year in **Kolkata**. Those who get direct admission from B. Stat complete both years of the programme in **Kolkata**.

**Eligibility**   In order to be eligible for admission to this programme, an applicant must have a Bachelor's degree of three or more years' duration, in any discipline.

**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, please refer to the Selection Policy for details of the selection process.

The written admission test is designed to assess competence in the theory and methods of Statistics and comprehension in Mathematics, and has two parts:

- multiple-choice questions in Statistics and Mathematics at the undergraduate level in the first part, and

- short-answer questions in Statistics and Mathematics at the undergraduate level in the second part.

Students with B Stat (Hons) degree from ISI who are directly admitted to this programme complete the first year in Kolkata. Freshly selected candidates complete the first year in Delhi. The second year of the programme is conducted in Kolkata for all students.

## 7.5   Master of Mathematics [M Math]

**Scope**   This **two-year** programme offers advanced-level training in Mathematics. On successful completion of the programme, students will be able to pursue a research/ academic career in Mathematics. Depending on the choice of the optional subjects, the students will also be able to work in the fields of Probability Theory and Theoretical Computer Science. For the batch admitted in 2024, this programme is offered at **Kolkata**.

**Eligibility**   In order to be eligible for admission to this programme, an applicant must have a Bachelor's degree of three or more years' duration, in any discipline.

**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, please refer to the Selection Policy for details of the selection process.

The admission tests will comprise multiple-choice questions in Mathematics in the first part and short-answer type questions in Mathematics in the second part. The questions will be on Mathematics at a level corresponding roughly to the Mathematics Honours/Major of Indian universities.

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

**Scope**   This is a **two-year** advanced programme in Economics and its applications, with special emphasis on quantitative methods. On successful completion of the programme, a student will be able to pursue an academic career in Economics or take up responsible positions in various private and public sector organisations. It is offered simultaneously at **Kolkata** and **Delhi**.

**Eligibility**   In order to be eligible for admission to this programme, an applicant must have a Bachelor's degree of three or more years' duration, in any discipline.

**Selection Procedure**   Please refer to the Selection Policy for details of the selection process. The written admission tests will comprise multiple-choice and short answer type questions in both Economics and Mathematics at the undergraduate level.

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

**Scope**   This is a **two-year** programme in Quality Management and its applications with a special emphasis on Quantitative Methods. It also includes Dissertation in the third semester and a live Project work in the fourth semester under the direct guidance of the faculty. The programme offers a flexible format for those who want to meet specific educational and career objectives. Students aspiring to undertake this programme will enhance their career options by gaining the contemporary knowledge and perspective required of Quality Analysts, Quality Managers and those who are responsible for one or more aspects of quality improvement.

The first two semesters will be offered at **Bengaluru** whereas the third semester will be at **Hyderabad**. The Project work in the fourth semester will be at a centre of the institute depending on the location of the project assigned to the student.

**Eligibility**   In order to be eligible for admission to this programme, an applicant must have a Bachelor's degree of three or more years' duration, in any discipline.

**Selection Procedure**   The written admission tests will comprise multiple-choice and/or descriptive questions in Mathematics at the undergraduate level. Please refer to the Selection Policy for details.

**Channel for Sponsored Candidates**   There is a provision for sponsored candidates (by government, semi-government and public sector undertakings) for this programme. General eligibility criteria and qualifying degree for sponsored candidates are the same as those for the regular (non-sponsored) candidates. However, the following **clauses** are applicable in the case of sponsored candidates:

1. A sponsored candidate must be from government/ semi-government/ government-aided, both national and international. Self-sponsored candidates are not eligible to apply.

2. Sponsored candidates will have to pay a tuition fee of Rs. 50,000 per semester. They are not eligible for any scholarship/financial support from the Institute.

3. A sponsored candidate must have been in service of the sponsoring organization for at least two years as on the date of admission to the programme. This two years of service experience must have been gained by the candidate after acquiring the requisite qualifying degree of the programme into which the candidate is seeking admission.

4. The sponsoring organization must specifically undertake to pay the necessary tuition fees to the Institute and to relieve the candidate to pursue the programme for its full duration.

5. A certificate from the sponsoring organization, to the effects of points 3 and 4 above, must be provided by the candidate at the time of applying for admission to the corresponding programme.

**Selection procedure for sponsored candidates**: For sponsored candidates, the procedure is the same as that for regular candidates. However, the qualifying scores for these candidates at each stage of selection (see Selection Policy) will be determined by relaxing the qualifying score for the General (unreserved) category by 10%.

The number of seats to be allocated to sponsored candidates in a given programme is supernumerary, subject to a maximum of 10% of the total number of seats for the programme.

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

**Scope**   This is a **two-year** advanced programme in Library and Information Science, with special emphasis on applications of information technology. On successful completion of this programme, a student will be able to pursue an academic career or take up responsible positions in various private and public sector organisations in the Library and Information fields. The objectives of this programme are to develop manpower capable of

- effectively and efficiently working as information professionals at higher levels in libraries and information centres;

- design and development of information systems;

- contributing to the discipline of Library and Information Science in terms of research and teaching.

This programme is offered only at **Bengaluru**.

**Eligibility**   In order to be eligible for admission to this programme, an applicant must have a Bachelor's degree of three or more years' duration, in any discipline.

**Selection Procedure**   Please refer to the Selection Policy for details of the selection process.

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

**Scope**   This **two-year** programme is designed to provide a balance of theoretical and professional training in Computer Science and Technology so that the students, on successful completion of the programme, may take up

- a professional career in the technology of software for computer systems or specialised application areas, or

- an academic career for further study and research in the fundamental and applied aspects of Computer Science and Technology and related disciplines.

This programme is offered only at **Kolkata.**

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

- a four-year B E/ B Tech (or equivalent) degree in any stream or,

- a master's degree in any subject and have passed Mathematics at the 10+2 level.

**Selection Procedure**   The written tests consist of a multiple choice type test in Mathematics at the B Sc (pass) level, and a subjective test consisting of two parts, the candidate having to answer any one part:

Group A: Mathematics at the B Sc (pass) level

Group B: Computer Science at B E / B Tech level

Please refer to the Selection Policy for details of the selection process.

In order to be eligible for admission through GATE Channel, the valid GATE score (out off 1000) of the candidate must be at least the eligibility score (see Selection Policy of GATE Channel for details). 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.

**Channel for Sponsored Candidates**   There is a provision for sponsored candidates (by government, semi-government and public sector undertakings) for this programme. General eligibility criteria and qualifying degree for sponsored candidates are the same as those for the regular (non-sponsored) candidates. Other terms and conditions are identical to those for sponsored candidates for the MSQMS programme (refer to clauses (1) - (5) under Section 6.6 in page no. 21).

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

**Scope**    This is a **two year** programme offered at **Kolkata**. The programme is designed to impart in-depth theoretical and practical knowledge in the area of cryptology and information security. It is designed to provide the basic background in mathematics, statistics and computer science followed by specialized instructions on various theoretical and practical aspects of the field. The students on successful completion of the programme, may take up

- a professional career in a industry/government organization which specializes in information security.

- an academic career to further study and research in theoretical and practical aspects of cryptology, information security and related disciplines.

**Eligibility**    Same as that of the M Tech programme in Computer Science.

**Selection Procedure**    Same as that of the M Tech programme in Computer Science.

**GATE Channel of Admission**    Same as that of the M Tech programme in Computer Science.

**Channel for Sponsored candidates**    Same as that of the M Tech programme in Computer Science.

**Sponsored candidates from the Services of the Government of India**    Selection is made through the standard mechanism of the sponsoring organizations, with ISI experts participating at the interview stage.

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

**Scope**    This is a full-time **two-year** programme and is offered only at **Kolkata**. It is intended to produce specialists in Statistical Quality Control, Reliability, Operations Research, and Quality Management Systems. Enough background on computing technologies is provided to enable the students to use technology effectively.

The programme is designed to offer adequate instruction in the theory and practice of the above disciplines. The objective is to equip students with the basic practical skills and sufficient theory to understand the principles involved in the application and to inculcate in them the power of systematic thinking and reasoning, practical approach and exposition. Every student, besides undergoing classroom instruction, shall do practical work by way of case studies, dissertation or project work on live problems under the

guidance of the expert faculty members of ISI. On successful completion of this programme, the students may take up either

- a professional career in the field of quality engineering and management in departments of government, semi-government, public/ private sector undertakings, industrial organizations, financial sector, consultancy agencies, or

- an academic career for further study and research in theoretical and applied aspects of Quality, Reliability and Operations research in organizations of higher learning and research institutions.

**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**   Please refer to the Selection Policy for details of the selection process for all candidates, including sponsored ones.  For admission to this programme, valid GATE score is not necessary, and candidates with valid GATE scores also must take the written tests.

The Admission Test is conducted in two sessions (forenoon and afternoon):

**Session 1:** a multiple-choice type of test in Mathematics at the undergraduate level;

**Session 2:** a descriptive test for the two streams as follows:

**Part I:** Candidates for both streams shall answer this part containing questions on mathematics.

**Part II:** It has two sections – one containing questions on statistics-probability is for **Statistics Stream**, and the other has engineering questions for **Engineering Stream**.

**Channel for Sponsored candidates**   Same as that of the M Tech programme in Computer Science.

**Sponsored candidates from the Services of the Government of India**   Selection is made through the standard mechanism of the sponsoring organizations, with ISI experts participating at the interview stage.

## 7.12    Postgraduate Diploma in Statistical Methods and Analytics [PGDSMA]

**Scope**   The programme is intended to provide students with a comprehensive training in basic theory and applications of Statistical Methods and Analytics, in addition to some exposure to Mathematics and Computer Science. It is so designed that on successful completion, the students will be able to take up jobs as statisticians in such departments of government and industries where application of Statistics and Analytics is required.

The total duration of this programme is **one year**.  This year it is offered at **Chennai** and the **ISI North-East Centre, Tezpur**.

This programme is open to candidates from all over India. However, **Fifty percent (50%) of the total number of seats at ISI North East (Tezpur) centre is reserved for the students domiciled in the North-Eastern states** of India.

**Eligibility**   In order to be eligible for this programme one must have 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).

In order to be considered for admission to this programme at the ISI North-East Centre (Tezpur) as a domiciled candidate, it is mandatory to have a valid certificate of domicile / certificate of permanent residence in one of the North-Eastern states, namely **Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura** from a competent authority (generally from the Office of the Deputy Commissioner) which is valid for the purpose of Admission to Educational Institutes.

**Selection Procedure**   Please refer to the Selection Policy for details of the selection process.

The admission test will comprise multiple-choice questions on Basic Mathematics.

## 7.13    Postgraduate Diploma in Agricultural and Rural Management with Statistical Methods and Analytics [PGDARSMA]

**Scope**   The programme is intended to provide students with comprehensive training in agricultural farm management, statistical methods and applications using R, computer operation and programming,

agricultural production and operations management, agribusiness and rural management. This unique programme is so designed that on successful completion, the students will be able to take up jobs in rural development organizations under Central and State governments, national and multinational companies involved in agro-processing and agricultural business operation or supply chain management, international and national level NGOs, development projects funded by government and non-government organizations, agricultural and livelihood related projects, and rural banking sector amongst others.

The total duration of this programme is **one year**, and it is offered at the **ISI Giridih** Branch. There is no stipend or tuition fee for the programme.

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

- a three/four-year Bachelor's Degree in any discipline with Mathematics/Statistics as a subject studied at least at the (10+2) level.

**Selection Procedure**    Please refer to the Selection Policy for details of the selection process.

The admission test will comprise multiple-choice questions on Mathematics (up to 12th standard), Logical Reasoning, as well as English Grammar and Comprehension.

## 7.14   Postgraduate Diploma in Business Analytics [PGDBA]

**Scope**    The Post Graduate Diploma in Business Analytics (PGDBA) – jointly offered by ISI, IIT Kharagpur and IIM Calcutta – aims to help shape the emerging profession of business analytics by delivering a cutting edge interdisciplinary educational experience to graduate applicants with an aspiration of building a career in this field. PGDBA is a two year full time diploma programme, specially designed to create business analytics professionals employable by leading Indian and foreign firms. Students successfully graduating from this programme will have options to join organizations working in the area of analytics, or pursue doctoral or other advanced studies in this area.

See `https://www.isical.ac.in/~pgdba/` for further details.

## 7.15   Postgraduate Diploma in Applied Statistics [PGDAS] (provided online through Coursera)

**Scope**    This online course is meant for individuals who are, or plan to be, involved in the processes of generation, interpretation and management of official data, but are possibly without a formal background in statistics. It aims to impart relevant statistical and computational skills along with basic domain

knowledge. The digital mode of the course makes it accessible to working professionals. On successful completion of the course, a student is expected to be better equipped for playing a meaningful role in evidence based policy making and policy research.

This will be a paid course, with provision of tuition waiver. The total duration of this programme is **one year**.

**Eligibility**   In order to be eligible for this programme one must have a graduate degree in any subject and mathematics at the (10+2 or equivalent) level.

**Selection Procedure**   Students of this course will be selected, on the basis of their mathematical skills, through (a) an online test administered through Coursera, or (b) a written test conducted by ISI.

Two batches of students will be selected every year through channel (a), and only one batch through channel (b). Some candidates shortlisted from channel (b) will be offered tuition waiver on the basis of subsequent interview. Please refer to the Selection Policy for details of the selection process of ISI.

## 7.16   Junior Research Fellowships (JRF)

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

**Scope**   The Institute offers Junior Research Fellowships in Statistics, Mathematics, Quantitative Economics, Computer Science, and Quality, Reliability and Operations Research (QROR). A candidate admitted as a Junior Research Fellow, and applying for registration for Ph D in the relevant discipline, will generally be required to successfully complete mandatory course-work involving at least five courses from the list of courses for that discipline. He/she is expected to engage in original research work in one of the above areas under the guidance of a supervisor appointed by the Institute, culminating in a doctoral thesis to be submitted for the Ph D degree of the Institute. Candidates making satisfactory progress towards the above goal are eligible to register for the Ph D degree of ISI (see Section 8.1, in page no. 37). At the end of the second year, the Junior Research Fellows are assessed for the award of Senior Research Fellowships. The total duration of Junior and Senior Research Fellowships shall not exceed 6+1 years.

**Location**   The names of the respective centres where research fellowships in a particular subject are being offered this year are given below.

- **Statistics**   Kolkata, Delhi.

- **Mathematics**   Kolkata, Bengaluru.

- **Quantitative Economics**   Kolkata, Delhi, Tezpur.

- **Computer Science**   Kolkata, Bengaluru, Chennai, Tezpur. [A JRF assigned to Bengaluru, Chennai or Tezpur Centre may have to go to Kolkata for completing the necessary coursework.]

- **Quality, Reliability & Operations Research (QROR)**   Bengaluru, Mumbai. [A JRF assigned to Bengaluru or Mumbai Centre may have to go to Kolkata for completing the necessary coursework.]

**Eligibility and Selection**

**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.

Applicants will have to appear for two written tests. Selection is based on the Written Admission Test and Interview.

**Admission Channel for ISI Master Degree students** In order to apply through this channel, the candidate must be a current or former student of ISI in the corresponding Master Degree programme, namely M. Math degree programme, subject to satisfying the following conditions:

1. A student who is (i) currently enrolled in the corresponding Master degree programme at ISI, (ii) has successfully completed the first year with an aggregate score of at least 75%, a score of at least 45% in each of the courses completed and (iii) has not appeared for any back / repeat paper examinations.

   A student who has (i) successfully completed the corresponding degree programme at ISI within the two previous years, (ii) has obtained an aggregate score of at least 75%, a score of at least 45% in each of the courses completed and (iii) has not appeared in any back/repeat paper examinations, may apply for admission to the corresponding JRF programme of ISI. However, a student can apply for admission through this Channel only once.

2. The student has qualified within the previous two years in one of the following national written examinations: CSIR-UGC NET (JRF) in Mathematical Sciences, NBHM (JRF).

Selection is based on Interview.

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

- an M Stat/ M Math degree from ISI, or

- an MA/M Sc or equivalent degree in Statistics.

Applicants will have to appear for two written tests. Selection is based on the Written Admission Test and Interview.

**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.

Applicants will have to appear for two written tests. Selection is based on the Written Admission Test and Interview.

**Admission Channel for ISI Master Degree students** In order to apply through this channel, the candidate must be a current or former student of ISI in the corresponding Master Degree programme, namely MS QE degree programme, subject to satisfying the following conditions:

1. Same as that for JRF in Mathematics programme.

2. The student has qualified within the previous two years in one of the following national written examinations: CSIR-UGC NET (JRF) in Mathematical Sciences, NBHM (JRF) or UGC-NET in Economics.

Selection is based on Interview.

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

- an ME/ M Tech or equivalent Master's 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 Stat/ M Sc/ MCA/ MA or equivalent Master's 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.

Applicants will have to appear for two written tests. Selection is based on the Written Admission Test and Interview.

**Admission Channel for ISI Master Degree students** In order to apply through this channel, the candidate must be a current or former student of ISI in the corresponding Master Degree programme, namely M Tech (CS) degree programme, subject to satisfying the following conditions:

1. Same as that for JRF in Mathematics programme.

2. The student has qualified within the previous two years in the CSIR-UGC NET (JRF) in Mathematical or Physical Sciences, or has a valid GATE (CS/DA/EC/EE/MA/PH/ST/BT) score or a valid JEST (PH/TCS) rank and the rank/score in any of these qualifying examinations is at least as good as the cutoff pre-declared by the JRF Selection Committee.

Selection is based on Interview.

**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.

Applicants will have to appear for two written tests. Selection is based on the Written Admission Test and Interview. Please refer to the Selection Policy for details of the selection process.

**Note:** ISI offers PhD degrees only in the five areas mentioned in Table 2. Candidates who have been awarded a Junior Research Fellowship in the five aforementioned areas by NBHM/ CSIR/ UGC/ ICMR/ DBT/Inspire based on a nationally conducted written Test, may be selected for admission to the PhD programme of ISI based on a separate written test followed by an interview conducted by the relevant JRF selection committee of the institute. Details will be announced on the Admission website `https://www.isical.ac.in/~admission/`.

**Procedure for admission to the PhD programme of ISI for applicants with externally-funded research fellowships, where the thesis is expected to be submitted to other institutions:** Awardees of NBHM/ CSIR/ UGC/ ICMR/ DBT/ Inspire Junior Research Fellowships seeking admission to such PhD programmes may send applications with relevant documents to the respective Unit Head throughout the year. The prospective candidate should check the website of the concerned Unit for the selection process and deadline of application for each round of selection and any other relevant information.

**Current Research Interests at Different Centres**

**KOLKATA**

**Statistics:** Asymptotic Theory in Statistics, Decision Theory, Statistical Inference: parametric, non-parametric and semi-parametric, Bayesian Analysis, Model Selection, Resampling Plans, Sequential Analysis, Sequential Plan, Multivariate Analysis, Parametric/ Non-parametric Regression Analysis, Robustness, Minimum Distance Methods, Discrete and Categorical Data Analysis, Linear Models, Parametric/ Non-parametric Discriminant Analysis, Biostatistics, Environmental Data Analysis, Survival Analysis, Reliability, Directional Data Analysis, Growth Curve Modelling, Exploratory Data Analysis, Ranking and Selection, Constructional and Combinatorial Aspects of Designs, Optimal Designs, Sampling Theory and Surveys, Small Area Estimation, Inference in High Dimensional Models. Applications of Statistics in Geology, Agriculture, Social Sciences and Industrial (Quality) Engineering; GIS Applications, Statistical Computation, Cryptology, Statistical Pattern Recognition, Image Analysis, HIV/AIDS Modelling. Clinical Trial, Majorisation, Brain Mapping.

**Mathematics:** Algebraic Topology, Differential Topology, Dynamical systems, Algebraic Geometry, Commutative Algebra and Affine Algebraic Geometry, Functional Analysis, Geometry of Banach Spaces, Spectral Theory of Differential Operators, Non-commutative Geometry, Harmonic Analysis, Wavelet Analysis, Number theory. Stochastic Processes, Probability Inequality, Large Deviations, Stochastic Calculus, Financial Mathematics, Markov Chains, Diffusion, Limit Theorems, Stochastic Approximations, Random Matrices, Extreme Value Theory, Heavy Tails and Long Range Dependence.

**Quantitative Economics:** Microeconomics, Macroeconomics, International Trade, Development Economics, Welfare Economics, Game Theory, Voting Theory, Contract Theory, Industrial Organisation, Financial Economics, Finance, Convergence, Social Choice, Political Economy, Public Economics, Economic Growth, Indian Economic Problems, Agricultural Economics, Environmental Economics, Time Series Econometrics, Financial Econometrics, Empirical/Applied Econometrics, Poverty and Inequality, Polarisation, Experimental Economics, Economics of Conflict, Public Choice, Social Economics, Analytical Marxism, Theories of Distributive Justice.

**Computer Science:** Computer Networks – ad hoc, Wireless Sensor, Wireless Mesh, UMTS Network Design; Parallel and Distributed Computing, Mobile Computing, Cluster Computing, Parallel/Distributed Architectures and Algorithms; Nanotechnology and Giga-scale Integration, Electronic Design Automation Algorithms and Testing, Biochips and Nano-biosystems, Intellectual Property Protection of SoCs, Quantum Computing, Fault Tolerance; Computational Geometry, Graph Theory, Combinatorial Optimisation, Algorithms and Computational Complexity; Computational Molecular and Systems Biology, Bioinformatics; Pattern Recognition, Machine Learning, Artificial Intelligence, Web Intelligence and Web Mining, Social Network Analysis, Text Mining, Data Mining, Information Retrieval, Natural Language Processing, Computational Linguistics; Computer Vision, Cognitive Vision, Digital Document Processing, Image and Video Processing, Content-based Image Retrieval, Computer Graphics, Biomedical Image Processing, Video Surveillance; Speech and Signal Processing; Artificial Neural Nets, Case Based Reasoning, Evolutionary Computing, Fuzzy Sets and Systems, Fuzzy Control, Granular Computing, Soft Computing, Computing with Words, Rough Sets, Swarm Intelligence, DNA-Computing; Mathematical Morphology, Fractals, Wavelets; Artificial Immune System, Neurodynamics; Digital Watermarking; Atmospheric Science, Remote Sensing; Theory and Applications of Cellular Automata; Cryptology, Coding Theory, Information Theory, Perception Engineering, Computational Neuroscience.

**Quality, Reliability & Operations Research (QROR):** Digital supply chain modelling, Operations Research, Reliability theory, Life testing, Repairable system analysis.

**DELHI**

**Statistics:** Computational biology. High-dimensional data. Penalised regression. Resampling methods. Reliability. Non-linear regression. Non-parametric inference. Statistical computing. Statistical graphics. Statistical signal processing. Surrogate data. Survival analysis.

**Quantitative Economics:** Optimisation Theory, Game Theory and Applications, Mechanism Design, Auction Theory, Choice Theory, Industrial Organisation, International Trade and Finance, Macroeconomic Theory, Growth Theory and Empirics, Applied Econometrics, Political Economy, Empirical and Theoretical Development Economics, Economics of Education, Health Economics, Agricultural Economics, Environmental and Natural Resource Economics, Experimental Economics, Economics of Terrorism and Conflict.

## BENGALURU

**Mathematics:** Algebraic Geometry, Algebraic Groups, Coding Theory, Ring theory, Operands, Finite Geometry, Finite Groups, Buildings, Number Theory, Topology, Combinatorial Topology, Complex geometry, Differential geometry. Probability Theory, Stochastic Processes, Diffusion Processes, Reflected Diffusion, Martingale problems, Interacting particle systems, Probability measures on groups. Functional Analysis, Geometry of Banach spaces, Operator Theory, Operator Algebras, Quantum Probability, Hilbert Modules.

**Computer Science:** Mathematical Morphology, Digital Geometry, Earth Systems Science, Spatial Informatics, Theoretical GISci and Geocomputation, Satellite Remote Sensing Data Analysis, Digital Image Processing, Digital Geographics, Modelling the behavior Complex Terrestrial Systems via Chaos and Bifurcation Theories, Fractals and Multifractals. Neuroinformatics: Interface between brain science and computer science from signal processing, information theory and coding theory point of view with realistic applications in experimental and clinical sciences. Equal emphasis is on quantitative science and medical science. Information Granulation, Granular Computing, Pattern Recognition, Machine Learning, Image and Video Processing, Soft Intelligence Computing, Computational Intelligence.

**Quality, Reliability & Operations Research (QROR):** SQC, SPC, Control charts, Process capability analysis, Quality engineering with Data Mining and Machine Learning.

## CHENNAI

**Computer Science:** Logic and Games, Formal epistemology; Graph theory and Graph Algorithms; Cryptology and Computer Algebra.

## MUMBAI

**Quality, Reliability & Operations Research (QROR):** Six sigma, SQC, SPC, Process capability analysis.

## GIRIDIH

**Biological Sciences:** Plant-pest interaction, ecology and management of invasive weeds; soil and water pollution and remediation strategies, waste management, and studying soil health and microorganisms.

## TEZPUR

**Computer Science:** Digital Image Processing, Remote Sensing, Image Analysis, Pattern Recognition.

**Biological Sciences:** Environmental Sciences, Environmental exposure and health, Climate change.

### 7.16.2 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 Section 7.16 need to register with other Universities/Institutes for their Ph D degree. A student is initially admitted as a Junior Research Fellow. After two years of satisfactory progress including successful completion of mandatory course work, Junior Research Fellows are assessed for the award of Senior Research Fellowships. The combined duration of the Junior and Senior Research Fellowships is 6+1 years. 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 and Applied Mathematics

**Areas:** Physics and Applied Mathematics
**Eligibility:**

- A Master's or equivalent degree in Physics/ Mathematics/ Applied mathematics/ Statistics

- or an M.E./ M. Tech or equivalent degree with Mathematics and Physics as subjects.

**Currently offered in:** Kolkata and Bengaluru

### (b) Geology

**Area:** Geology
**Eligibility:** An M.Sc. degree in Geology or in an equivalent subject with minimum 55% marks in aggregate.

**Currently offered in:** Kolkata

### (c) Biological Science

1. **Areas:** Agricultural and Ecological Research, Environment Science
   **Eligibility**: an M.Sc. in Agricultural Entomology/ Plant Pathology/ Agriculture Biotechnology/ Biotechnology/ Botany/ Biochemistry/ Microbiology/ Environmental Sciences/ Life Sciences/ Zoology from a recognized University with good academic record

   **Currently offered in:** Kolkata, Giridih and Tezpur

2. **Area:** Human Genetics
   **Eligibility:** an M Sc or equivalent degree in Biochemistry / Biotechnology / Genetics / Molecular Biology / Life Sciences / Zoology

**Currently offered in:** Kolkata

**(d) Linguistics**

**Area:** Corpus Linguistics, Computational Linguistics, Applied Linguistics, Cognitive Linguistics, Language Documentation and Digitization

**Eligibility:** BA (Honours) in Linguistics/English and MA (First Class) in Linguistics with specialization in Morphology/ Semantics/Corpus Linguistics/Natural Language Processing/Computational Linguistics/ Applied Linguistics/Lexicography/Language Digitization/Machine Translation.

**Currently offered in:** Kolkata

**Selection Procedure**   All applicants will have to appear for written tests. Selection is based on the Written Admission Test and Interview.
Please refer to the Selection Policy for details of the selection process.

Past academic records may also be taken into consideration[8].

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[8]For 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.

# 8  Doctoral Degrees

## 8.1  Doctor of Philosophy [Ph D]

The degree of Doctor of Philosophy is awarded to a candidate for original contribution in a chosen field of research in the areas: Statistics, Mathematics, Quantitative Economics, Computer Science, and Quality, Reliability & Operations Research (QROR). For this purpose, it is necessary for any candidate to register for this degree under a supervisor and subsequently submit a thesis embodying his/her research work for evaluation by a panel of examiners.

Eligibility conditions for registration as a candidate for the Ph D degree of Indian Statistical Institute are available in `https://www.isical.ac.in/~deanweb/PhDRules_updated.pdf`.

All correspondence regarding registration and other matters connected with Ph D degrees may be addressed to the Convener of the Ph D – D Sc Committee of the concerned discipline at the address: Indian Statistical Institute, 203, B T Road, Kolkata 700 108.

## 8.2  Doctor of Science [D Sc]

This is an award for outstanding published work.

**Eligibility**  The D Sc degree is awarded only in exceptional cases on the basis of outstanding published work. Only those who satisfy one of the following requirements are considered for the award.

  (i) B Stat (Hons)/B Math (Hons) degree or the Statistician's diploma of the Indian Statistical Institute and at least eight years of independent research work in Statistics.

 (ii) M Stat degree or Certificate of successful completion of the Two/Three year Advanced Statistician's Course of the Indian Statistical Institute and at least four years of independent research.

(iii) Ph D degree of the Indian Statistical Institute and at least two years of subsequent research.

(iv) At least eight years of research work in the field of Statistics after the Bachelor's degree of a recognized university or institute of which at least one year of work must be at the Indian Statistical Institute.

All correspondence regarding registration and other matters connected with D Sc degrees may be addressed to Convener, Ph D – D Sc Committee, Indian Statistical Institute, 203, B T Road, Kolkata 700 108.

# 9  Other Information for Prospective Students

For all the regular on-campus degree and diploma programmes, each academic year is divided into two semesters separated by a short break. The first semester (Semester I) for all the programmes usually starts in July/August and ends in November/December. The second semester (Semester II) starts in January and, for all the programmes other than the two M Tech programmes and MS (QMS), usually ends in May. For the two M Tech programmes and MS (QMS), Semester II usually ends in June, after summer training for M Tech (CS) and field training for M Tech (QROR) and MS (QMS). Classes are held on weekdays (Monday to Friday) during designated class hours.

## Students' Brochure

Details of the courses along with the rules and regulations pertaining to the academic programmes of the Institute are given in the Students' Brochure. A periodically updated version of the Students' Brochure is available on the internet at https://www.isical.ac.in/~deanweb/academic.html in a downloadable PDF format.

**Note: The Institute reserves the right to make changes in course structure, selection procedure, etc. as and when needed.**

## Stipends, Fellowships and Allowances

All non-sponsored students and research fellows admitted to various degree programmes and the domicile students of the *Postgraduate Diploma in Statistical Methods and Analytics* programme receive stipends, fellowships and book/contingency grants as given below. OCI applicants, if selected, will not be entitled to stipend. Non-sponsored candidates are not required to pay any tuition fee for any of the programmes. Stipends are granted in the first instance for one semester only. They are renewed every semester if the progress of the student is found satisfactory. **Stipend/ Fellowship granted to a student may be reduced or completely withdrawn if the academic progress, attendance in class, or character and conduct of the student are not found satisfactory.** Details of the rules pertaining to this are available in the appropriate Students' Brochure. At the end of each semester, prizes are also awarded for outstanding performance in examinations.

## Tuition Fees

**Bachelor of Statistical Data Science** is a paid programme. The tuition fee for this programme is INR 1 lakh per semester. There will be provision for partial and full waiver of tuition fees:
- Full waiver of tuition fee for SC-ST / OBC / PwD candidates

Table 7: Stipends, Fellowships and Allowances

| PROGRAMME | Stipend/ Fellowship per month (Rs.) | Contingency Grant per year (Rs.) |
|---|---|---|
| B Stat (Hons)/B Math (Hons) | 5000 | 5000 |
| M Stat/M Math/MS(QE)/MS(LIS)/MS(QMS) | 8000 | 8000 |
| M Tech (CS)/M Tech (CrS)/M Tech (QROR) | 12400 | 8000 |
| Post-Graduate Diploma in Statistical Methods and Analytics | 3000 * | 3000 * |
| Junior Research Fellowship (JRF) | 31000 † + HRA as per rules | 20000 |
| Senior Research Fellowship (SRF)‡ | 35000 † + HRA as per rules | 20000 |

† Increased rate of fellowship would be implemented once approval is received.

*Only for students domiciled in the North-Eastern States of India

‡After two years as JRF

- Full/partial waiver for EWS candidates based on family income: In particular,

- (a) full (100%) remission of tuition fee for the most economically backward students (whose family income is less than Rs. 1 lakh per annum);

- (b) partial (66.67%) remission of tuition fee for the other economically backward students (whose family income is between Rs. 1 lakh per annum and Rs. 5 lakh per annum, both inclusive)

## Disciplinary Policy

Every student of the Institute is expected to observe the normal discipline of the Institute and shall not indulge in cheating in the examinations, unruly behaviour or any other act of indiscipline or unlawful/unethical/indecent behaviour. There are also specific attendance requirements that the students are expected to meet, details of which are mentioned in the **Students' Brochure**. Violations of these are likely to attract punishments such as withdrawal of stipend, withholding of promotion/award of degree, and/or expulsion from the hostel/Institute.

**Ragging is banned in the Institute. If any incident of ragging comes to the notice of the authorities, the concerned student will be given an opportunity to explain his/her action(s), and if the explanation is not found to be satisfactory, he/she may be expelled from the Institute. The punishment may also take the shape of**

(i) **suspension from the Institute for a limited period,**

(ii) **suspension from classes for a limited period,**

(iii) **withholding of stipend/fellowship or other benefits,**

(iv) **withholding of results,**

(v) **suspension or expulsion from hostel.**

**National laws governing ragging are also applicable to the students of the Institute.**

## Hostel

The Institute has hostels for the students in its premises in Kolkata, Delhi, Bengaluru and Hyderabad. The campus at Giridih also has rudimentary hostel facilities. A nominal rent is charged per month for accommodation. Students are responsible for payment of food charges. However, it may not be possible to accommodate all degree/ diploma students in the hostels. Limited medical facilities are available free of cost at all campuses. OCI applicants, if selected, will not be entitled to Hostel accommodation.

**Students joining the PGDSMA programme at ISI Chennai and at the ISI NE Centre (Tezpur) in 2024-25 will have to make their own arrangements for accommodation since the Institute will not be able to provide hostel facilities.**

## Placement of Students

Students who have undergone the B Stat (Hons), B Math (Hons), M Stat, M Math, MS (QE), M Tech (CS), M Tech (CrS), M Tech (QROR) and other degree, diploma/ certificate programmes of the Institute and those having the Ph D degree of the Institute either get opportunities to join research programmes in India and abroad, or get placed in attractive positions in the industry or government departments. The master's degree programmes in the Institute have close to 100% placement record. Most of the students of the Institute get employment offers or admission to some Ph D programmes even before they complete the qualifying degree examinations.

There is a Placement Committee in Kolkata, which arranges campus interviews by prospective employers. Campus interviews are also organised at the Delhi and Bengaluru Centres.

# 10   Application Procedure

**All Indian Citizens and Overseas Citizens of India (OCI), who obtained their OCI card on or before 4th March 2021, are eligible to apply.**

At the time of registration a candidate has to choose the Applicant Type which is applicable for him/her:

- Citizen of India

- Overseas Citizen of India (OCI) who obtained their OCI card on or before 4th March 2021

The eligibility and selection criteria for the different channels is given in Tables 8 and 9.

Table 8: Eligibility and selection criteria for the **Regular seats**

| Channel name | Admissible programmes | Citizenship/ domicile status | Eligibility criteria | Selection criteria |
|---|---|---|---|---|
| ISI Test Channel | All programmes | Indian citizens and OCIs | For OCIs, card issued on or before 4 March 2021 | ISI admission test, Interview (if applicable) |
| GATE Channel | M Tech (CS) M Tech (CrS) | Indian citizens | Valid GATE score | Gate score and Interview |
| ISI Test Channel for NE domiciles | PGDSMA | Domiciles of NE states | Certificate of Permanent Residence/ Domicile | ISI admission test, Interview |
| Channel for ISI Masters students | JRF in Mathematics, Quantitative Economics and Computer science | Indian citizens | ISI Masters' degree students qualified in a National level JRF written test | Interview |

**P.S.** Reservation policy is applicable for the Regular seats.

Applicants are advised to study the prospectus carefully and satisfy themselves that they are eligible for admission to the academic programme for which they are applying. If at any stage it is found that a candidate does not satisfy the eligibility conditions or the information furnished in the application is incorrect, the application will be cancelled. 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,

Table 9: Eligibility and selection criteria for the **Supernumerary seats**

| Channel name | Admissible programmes | Citizenship/ domicile status | Eligibility criteria | Selection criteria |
|---|---|---|---|---|
| INMO Channel | B Stat and B Math | Indian citizens | INMO certificate | Interview |
| ISI Test Channel for Sponsored candidates | MS QMS, M Tech (CS), M Tech (CrS) and M Tech (QROR) | Indian citizens | Sponsorship by employer | ISI admission test, interview |
| Channel for GoI sponsored candidates | M Tech (CrS) and M Tech (QROR) | Indian citizens | GoI sponsorship | Interview |

**P.S.** Reservation policy is not applicable for the Supernumerary seats.

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, 2024. The institute may decide to relax this date at its discretion. If a student is asked to discontinue from an ISI programme for having failed or on any disciplinary ground, he/she is not eligible for readmission to the same programme.

In order to avail the benefits of the Reservation Policy, the eligible candidates are required to upload the Category Certificate and/or PwD certificate in support of their application. Candidates applying for the PGD SMA programme through the channel for Domiciles of North East States must upload a Certificate of Permanent Residence or Domicile.

**Validity of EWS and OBC-NCL certificate, Permanent Resident/ Domicile certificate and PwD certificate:**

- Category certificates (EWS and OBC-NCL), Permanent Resident/ Domicile Certificate for domiciles of North-East states of India and PwD certificates must be valid on the day of the ISI Admission Test scheduled on 12 May 2024.

- At the time of application, the candidates must upload a document that will remain valid on the day of the ISI Admission Test to be held on 12 May 2024.

- The candidates will be given an opportunity to update the Category related information (EWS, OBC-NCL status), North-East domicile status and PwD information during 14-15 May, 2024 after the ISI admission test.

If a programme is offered at multiple locations, the applicant for that programme is asked to choose

locations in order of preference. If selected, he/she will be allocated a location according to these preferences depending on availability as per merit list.

Applicants who apply through ISI Test Channels must take Admission Test at one of the test cities in India (see Table 11, in page no. 45). A candidate, if eligible, may apply through more than one Channel. The applications will be treated separately. The candidate will have to pay an application fee for each of the applications.

**All the applications for admission to the programmes being offered by Indian Statistical Institute in the academic year 2024-25 must be done ONLINE through the ISI Admission Portal the link to which is available at** https://www.isical.ac.in/~admission.

The applicant must initially register at the ISI Application Portal. An account will be created for the applicant in the portal, through which s/he can conveniently fill up the application form and also make payment of the application fee after submission of the form. After completion of application, the applicant will be able to pay the application fee through the payment gateway. Payment can be made in the online mode (See application portal for details).

Once the candidate has registered in the Application Portal, verified the e-mail address, filled up Category information and chosen an Academic Programme, the portal will show only the relevant Admission Channels to the candidate.

## Application Fee

Table 10: Application Fee for the year 2024

| 1 | **Rs 1500.00** | for all male applicants, who are Indian citizens, in the general category, |
|---|---|---|
| 2 | **Rs 1000.00** | for all female candidates, who are Indian citizens, in the general category |
| 3 | **Rs 750.00** | for applicants, who are Indian citizens, belonging to SC/ST/OBC-NCL/EWS/ Persons with Disabilities (PwD) categories, |
| 4 | **Rs 1500.00** | for all Overseas Citizens of India. |

Applicants may have to pay an additional amount towards bank charges.

**Admit Card:** All applicants who have paid the application fee successfully will will be able to download the admit card from 26 April 2024, from the Dashboard of their account at the application portal. The admit card will contain the name, photograph, signature and registration number of the candidate, test centre, test code and the date of test. The applicants will be required to carry hard copies of the admit card to the test centres on the day of the Admission Test.

**In all subsequent correspondence, the applicant should quote the Registration Number without**

which no correspondence will be entertained.

**Information about the Admission process and policy can be obtained by the following the links given below.**

- **Reservation Policy**

- **Selection Policy for non-JRF programmes**

- **Selection Policy for JRF programmes**

- **Selection Policy for admission to MTech(CS) and MTech (CrS) through GATE Channel**

- **Business Rules for B Stat and B Math admission**

- **Business Rules for non-JRF admission, other than BStat, BMath**

- **Business Rules for JRF admission**

- **Prospectus 2024-2025**

The tables in the following pages contain useful information pertaining to the ISI Admission Test 2024.

Table 11: **List of Cities** for Admission TEST in 2024

| S.No. | Code | City | State/U.T. | S.No. | Code | City | State/U.T. |
|---|---|---|---|---|---|---|---|
| 1 | AT | Agartala | Tripura | 22 | KO | Kochi | Kerala |
| 2 | AD | Ahmedabad | Gujrat | 23 | CC | Kolkata | West Bengal |
| 3 | AZ | Aizawl | Mizoram | 24 | LU | Lucknow | Uttar Pradesh |
| 4 | BG | Bengaluru | Karnataka | 25 | ML | Malda | West Bengal |
| 5 | BP | Bhopal | Madhya Pradesh | 26 | MN | Mangaluru | Karnataka |
| 6 | BH | Bhubaneswar | Odisha | 27 | MH | Mohali | Punjab |
| 7 | CN | Chennai | Tamil Nadu | 28 | MB | Mumbai | Maharastra |
| 8 | CM | Coimbatore | Tamil Nadu | 29 | NG | Nagpur | Maharastra |
| 9 | CT | Contai | West Bengal | 30 | PT | Patna | Bihar |
| 10 | DN | Dehradun | Uttarakhand | 31 | PO | Pondicherry | Pondicherry |
| 11 | DH | Delhi | Delhi | 32 | PU | Pune | Maharastra |
| 12 | DP | Durgapur | West Bengal | 33 | RP | Raipur | Chattisgarh |
| 13 | GH | Guwahati | Assam | 34 | RN | Ranchi | Jharkhand |
| 14 | HY | Hyderabad | Telengana | 35 | SL | Shillong | Meghalaya |
| 15 | ID | Indore | Madhya Pradesh | 36 | SC | Silchar | Assam |
| 16 | JP | Jaipur | Rajasthan | 37 | SG | Siliguri | West Bengal |
| 17 | JA | Jammu | Jammu & Kashmir | 38 | TZ | Tezpur | Assam |
| 18 | JS | Jamshedpur | Jharkhand | 39 | TV | Trivandrum | Kerala |
| 19 | KL | Kalyani | West Bengal | 40 | VN | Varanasi | Uttar Pradesh |
| 20 | KN | Kanpur | Uttar Pradesh | 41 | VJ | Vijayawada | Andhra Pradesh |
| 21 | KG | Kharagpur | West Bengal | 42 | VP | Visakhapatnam | Andhra Pradesh |

Table 12: Information about Admission Tests for non-JRF Programmes being offered in 2024

| Programme | Code (Location) | Forenoon 10:30 hrs to 12:30 hrs | | | Afternoon 14:00 hrs to 16:00 hrs | | |
|---|---|---|---|---|---|---|---|
| | | Test Subject | Test Type | Test Code | Test Subject | Test Type | Test Code |
| B Stat | BST (Kolkata) | Math | MCQ | UGA | Math | Descriptive | UGB |
| B Math | BMT (Bengaluru) | Math | MCQ | UGA | Math | Descriptive | UGB |
| B SDS | BSD (Kolkata,Delhi Bengaluru) | Math | MCQ | BSA | No Test | - | - |
| M Stat | MST (Delhi, Kolkata) | Math, Stat | MCQ | PSA | Math, Stat | Descriptive | PSB |
| M Math | MMT (Kolkata, Bengaluru) | Math | MCQ | PMA | Math | Descriptive | PMB |
| MS (QE) | MQE (Kolkata) MQE (Delhi) | Math, Eco | MCQ | PEA | Math, Eco | Descriptive | PEB |
| MS (QMS) | MQM (Bengaluru) | Math | MCQ | QMA | Math | Descriptive | QMB |
| MS (LIS) | MLI (Bengaluru) | Quantitative and Reasoning Ability | MCQ | PLA | Essays and English Comprehension | Descriptive | PLB |
| M Tech (CS) | MCS (Kolkata) | Math, Comp Sc | MCQ | PCA | Math/ Comp Sc | Descriptive | PCB |
| M Tech (CrS) | MCY (Kolkata) | Math, Comp Sc | MCQ | PCA | Math/ Comp Sc | Descriptive | PCB |
| M Tech (QROR) | MQR (Kolkata) | Math | MCQ | MMA | Stat/Prob/ Math/Engg | Descriptive | PQB |
| PG Diploma in Statistical Methods & Analytics | DST (Chennai) DST (Tezpur) DST (Tezpur, Domicile) | Math | MCQ | DST | No Test | – | – |
| PG Diploma in Agricultural Management with Statistical Methods & Analytics | DAR (Giridih) | Math, English, Logical Reasoning Basic notions of Agriculture and Social Science | MCQ | DRA | No Test | – | – |
| PG Diploma in Applied Statistics | DAS (Online) | Math | MCQ | DST | No Test | – | – |

Note: Abbreviations used in the Test Subject column are explained in the list of abbreviations in page no. 2.

Table 13: Information about Admission Test for Junior Research Fellowships (JRFs) programmes being offered in 2024

| Programme | Location | Code | Forenoon 10:30 hrs to 12:30 hrs | | | Afternoon 14:00 hrs to 16:00 hrs | | |
|---|---|---|---|---|---|---|---|---|
| | | | Test Subject | Test Type | Test Code | Test Subject | Test Type | Test Code |
| Statistics | Kolkata / Delhi | JST | Math, Stat | Descriptive | STA | Math, Stat | Descriptive | STB |
| Mathematics | Kolkata / Bengaluru | JMT | Math | Descriptive | MTA | Math | Descriptive | MTB |
| Quantitative Economics | Kolkata / Delhi / Tezpur | JQE | Math | Descriptive | QEA | Eco | Descriptive | QEB |
| Computer Science | Kolkata / Bengaluru / Chennai / Tezpur | JCS | Elements of Comp Sc. Math | Descriptive | CSA | Comp Sc, Math | Descriptive | CSB |
| Quality, Reliability & Operations Research | Bengaluru / Mumbai | JQR | Math | MCQ | MMA | Math, Stat, OR, SQC, Reliability | Descriptive | QRB |
| Physics & Applied Mathematics | Kolkata / Bengaluru | JPM | Math | MCQ | MMA | Math, Phys | Descriptive | PHB |
| Geology | Kolkata | JGE | Math, Geomath, Geostat | Descriptive | GEA | Geology | Descriptive | GEB |
| Biological Science (Agri & Ecol Res) | Kolkata / Giridih / Tezpur | JAE | Agri Science, Env Science Basic Stat | MCQ | AEA | Agri Science, Env Science, Basic Stat | Descriptive | AEB |
| Biological Science (Human Genetics) | Kolkata | JHG | Biochem, Biotech, Genetics, Mol Bio, Life Sc, Zool | MCQ | HGA | Biochem, Biotech, Genetics, Mol Bio, Life Sc, Zool | Descriptive | HGB |
| Linguistics | Kolkata | JLN | Linguistics | MCQ | LNA | Linguistics | Descriptive | LNB |

Note: Abbreviations used in the Test Subject column are explained in the list of abbreviations in page no. 2.
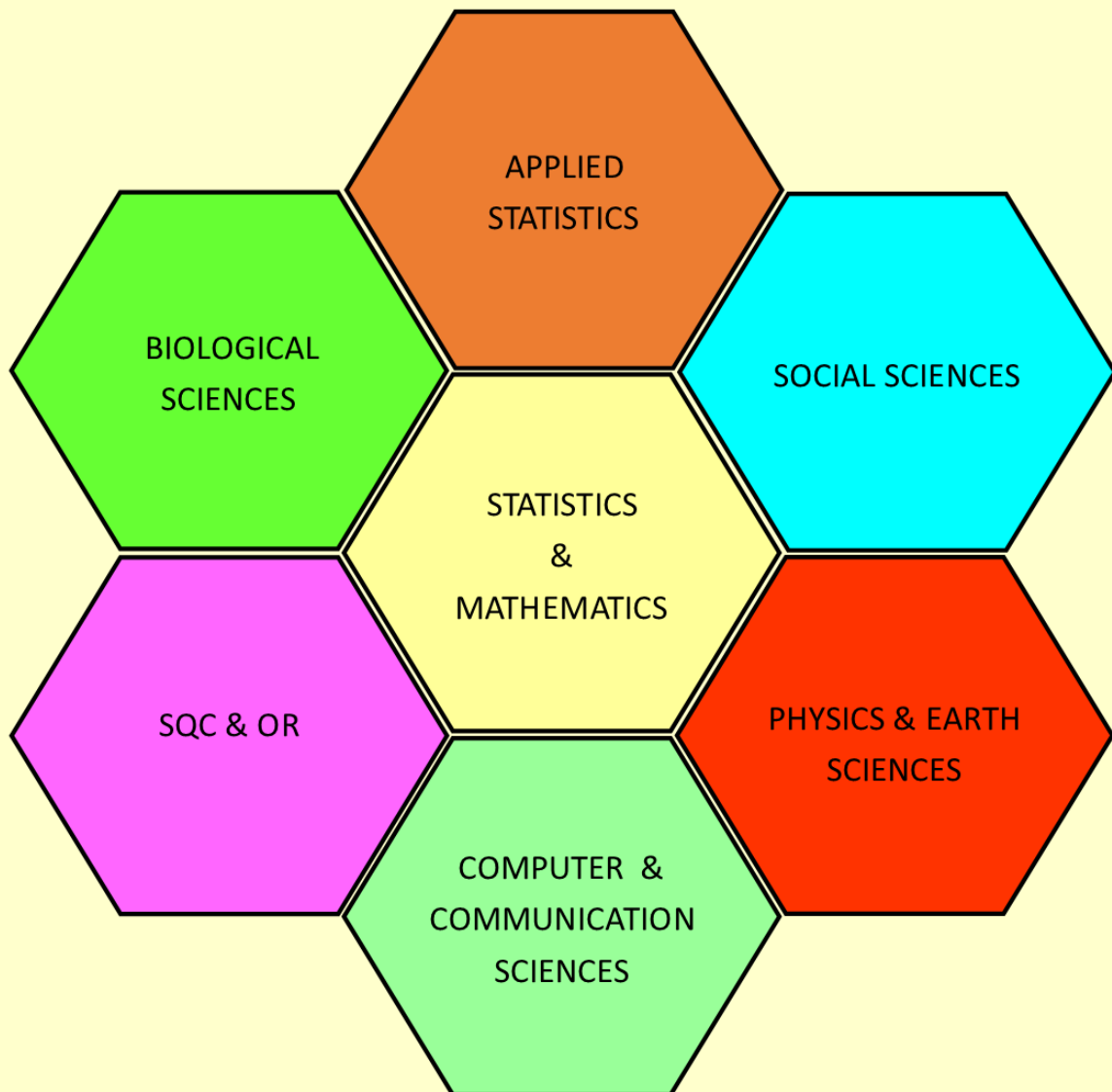
**Notes**

- Candidates selected for Junior Research Fellowships may be asked to join at a place other than the one opted for, if necessary.

- Candidates who fail to appear in the written admission tests will not be considered for admission. On the basis of the performance in the written tests, shortlisted candidates will be asked to appear for an interview for final selection subject to verification of their eligibility with reference to original documents.

- **Any dispute concerning admissions in 2024-25 shall be settled in Kolkata subject to the jurisdiction of the Kolkata High Court.**

| IMPORTANT DATES | | |
|---|---|---|
| Online Application | Start Date | **5 MARCH, 2024** |
| | End Date | **26 MARCH, 2024** |
| Issue of Admit Card | | **26 APRIL, 2024** |
| **ISI ADMISSION TEST** | | **12 MAY, 2024** |

The 58th Convocation of the Indian Statistical Institute

# UNITY IN DIVERSITY



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