Selection Policy for Admission to ISI - 2020

1 Number of Seats N in a Program

B. Stat. (Hons.)	50	B. Math. (Hons.)	50
M. Stat.	30	M. Math	20
MSQE (Delhi+Kolkata)	45 (27+18)		
MS LIS	10	MSQMS	16
M. Tech (CS)	35	M. Tech (QROR)	25
M. Tech (CrS)	20		
PG Diploma in Statistical methods and analytics (PGD SMA) (Tezpur+Chennai)	45 (30*+15)	PG Diploma in Agricultural and Rural Management with Statistical Methods and Analytics (PGD ARSMA)	15
JRF (ISI funded)	60		

*15 seats in Tezpur are reserved for domicile NE candidates.

2 Description of Admission Process for a Program Run by the Institute:

Each applicant takes one or two written tests, the number of written tests being fixed for each program. Based on their performance in the written test(s) the applicant is called for an interview. The decision to admit an applicant is based on a composite score derived on the basis of their performance in written test(s) and the interview.

The final selection of an applicant is based on a stage-wise process. Each stage comprises

1. preparation of a score-list (i.e. list of scores obtained by all applicants or by applicants who are shortlisted from the previous stage),

2. determination of Qualifying Score (if not pre-declared) from a predeclared number p: If a program has N seats then the score of the $p \times N$-th candidate in the scorelist will be determined as the qualifying score q for that particular stage.

3. shortlisting of candidates by applying the Qualifying Score,

4. preparation of a list of applicants who have qualified to proceed to the next stage (hereafter referred to as shortlisted applicants).

Special Case of Written Test Waiver: Waiver of written test is granted to

(i) applicants to B.Stat./B. Math. who are INMO (conducted by NBHM) awardees.

(ii) applicants to M.Tech. (CS) who have GATE scores above a cut-off set by the Selection Committee.

(iii) applicants of a Junior Research Fellowship (JRF) programme who have obtained a Master's degree in the relevant discipline from Indian Statistical Institute with at least 75% in the aggregate without any back-paper or compensatory examination in any course during the entire programme, and are applying within two years of graduating.

All such candidates are also required to apply, like all other candidates, in the prescribed application form.

All candidates for whom written tests are waived will be called directly for interview by the corresponding selection committee. If the candidates fail to appear in the interview their candidature will be cancelled.

3   Preparation of Score Lists and Stage-wise short listing:

3.1   Programs in which the first shortlist is based on Written Test I only - E.g. all non-JRF programs

- *First score list:* All answer scripts from Written Test I are graded. The tabulated score sheet of scores obtained in Written Test I by all candidates is the first score list.

  - Stage I Short listing:
    * If a program has N seats then the lowest score of the top $p_1 \times N$ candidates will be set as the Qualifying Score, where $p_1 > 1$
    * The score of the $p_1 \times N$th candidate will be deemed as the GEN qualifying score q_1. The qualifying score for OBC will be $0.9 \times q_1$ and the qualifying score for SC/ST/PwD will be $0.7 \times q_1$.
    * All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage I.

- *Second score list:* Written Test II answer scripts of candidates short listed in Stage I (see above) are graded. Weighted sum of scores for stage II (WSSII) is computed:

$$WSSII = A_1 \times \text{Written Test I Score} + B_1 \times \text{Written Test II Score}.$$

The tabulated score sheet of *WSSII* obtained by the candidates who were shortlisted in Stage I, is the second score list.

- Stage II Short listing:
    * If a program has N seats then the lowest score of the top $p_2 \times N$ candidates will be set as the Qualifying Score, where $p_1 > p_2 > 1$
    * The score of the $p_2 \times N$th candidate will be deemed as the GEN qualifying score q_2. The qualifying score for OBC will be $0.9 \times q_2$ and qualifying score for SC/ST/PwD will be $0.7 \times q_2$.
    * All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage II.

- *Third score list:* All stage II shortlisted (see above) candidates are called for interview. Weighted sum of scores for stage III (WSSIII) is computed:

$$WSSIII = A_2 \times \text{Written Test I Score} + B_2 \times \text{Written Test II Score} + C \times \text{Interview Score}.$$

The tabulated score sheet of *WSSIII* obtained by the candidates who were shortlisted in Stage II, is the third score list.

- Stage III Short listing:
    * If a program has N seats then the lowest score of the top $p_3 \times N$ candidates will be set as the Qualifying Score, where $p_1 > p_2 > p_3 > 1$.
    * The score of the $p_3 \times N$th candidate will be deemed as the GEN qualifying score q_3. The qualifying score for OBC will be $0.9 \times q_3$ and qualifying score for SC/ST/PwD will be $0.7 \times q_3$.
    * All candidates whose scores are equal to or above the respective qualifying score will be deemed to have been short listed in Stage III.

- *Final Rank-ordered Merit List:* The tabulated score sheet of scores obtained by the candidates after stage III shortlisting is the Final Rank-ordered Merit List. From this ranking students will be offered admission to a program until the seats are filled in accordance with the with the **Reservation Policy** and **Admission Policy**.

3.2 Programs in which the first shortlist is based on Written Test I and Written Test II. E.g. J.R.F.(Math)

- *First score list:* All answer scripts from Written Test I and Written Test II are graded. The tabulated score sheet of scores obtained in Written Test I and Written Test II by all candidates is the first score list.

- Stage I Short listing:
    * Qualifying Score q_1 for Test I and q_1' for Test II may be set beforehand. Alternatively, these may be determined from the number of seats N and a pre-declared number p_1 (see Section 1(2)). This will be deemed as GEN qualifying score.

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* Qualifying score for OBC will be $0.9 \times q_1$ and $0.9 \times q_1'$ respectively and qualifying score for SC/ST/PwD will be $0.7 \times q_1$ and $0.7 \times q_1'$ respectively in Test I and Test II.
  * All candidates whose scores in Test I and in Test II are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage I.

- *Second score list:* Weighted sum of scores for stage II (WSSII) are computed:

$$WSSII = A_1 \times \text{Written Test I Score} + B_1 \times \text{Written Test II Score}.$$

The tabulated score sheet of *WSSII* obtained by the candidates who were shortlisted in Stage I, is the second score list.

  – Stage II Short listing:
    * If a program has N seats then the lowest score of the top $p_2 \times N$ candidates will be set as the Qualifying Score, where $p_2 > 1$
    * The score of the $p_2 \times N$th candidate will be deemed as the GEN qualifying score q_2. The qualifying score for OBC will be $0.9 \times q_2$ and qualifying score for SC/ST/PwD will be $0.7 \times q_2$.
    * All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage II.

- *Third score list:* All stage II shortlisted (see above) candidates are called for interview. Weighted sum of scores for stage III (WSSIII) is computed for all candidates:

$$WSSIII = A_2 \times \text{Written Test I Score} + B_2 \times \text{Written Test II Score} + C \times \text{Interview Score}.$$

The tabulated score sheet of *WSSIII* obtained by the candidates who were shortlisted in Stage II, is the third score list.

  – Stage III Short listing:
    * If a program has N seats then the lowest score of the top $p_3 \times N$ candidates will be set as the Qualifying Score, where $p_2 > p_3 > 1$.
    * The score of the $p_3 \times N$th candidate will be deemed as the GEN qualifying score q_3. The qualifying score for OBC will be $0.9 \times q_3$ and qualifying score for SC/ST/PwD will be $0.7 \times q_3$.
    * All candidates whose scores are equal to or above the respective qualifying score will be deemed to have been short listed in Stage III.

- *Final Rank-ordered Merit List:* The tabulated score sheet of scores obtained by the candidates after stage III shortlisting is the Final Rank-ordered Merit List. From this ranking students will be offered admission to a program until the seats are filled in accordance with the **Reservation Policy** and **Admission Policy**.

3.3 Placement of candidates for whom the Written Tests are waived

- Applicants of B. Stat (Hons) and B. Math (Hons) programmes who are INMO awardees will be directly called for interview. If UGA_{max} and UGB_{max} are the maximum scores in the UGA and UGB scorelists of all candidates appearing for the Written Tests, then the INMO candidates will be placed on the top of the UGA and UGB score lists with scores UGA_{max} and UGB_{max} respectively. The scorelists for B.Stat and B.Math programmes will be dealt separately.

- Candidates applying for M. Tech (CS) or M. Tech (CrS) and having a valid GATE score 770 (out of 1000) or above will be directly called for interview. These candidates will be included in Stage II shortlist after converting their GATE score to a score y as per the following rule: If the GATE score of a candidate is x then the equivalent score y will be computed as

$$y = (WSSII_{max} - WSSII_{min}) * (x - GATE_{min})/(GATE_{max} - GATE_{min}) + WSSII_{min},$$

  where $WSSII_{max}$ and $WSSII_{min}$ denote the maximum and the minimum of the scores in the WSSII scorelist (see Section 2.1) for the M. Tech(CS) and/or M. Tech(CrS). $GATE_{max}$ and $GATE_{min}$ denote the maximum and the minimum of the GATE scores of all applicants for whom the Written Tests are waived.

  WSIII scores of the candidates short-listed in Stage II for whom the ISI Written Tests are waived will be computed as

$$WSIII = y + C \times Interview\ Score.$$

- For an applicant of a Junior Research Fellowship (JRF) programme who has obtained a Master's degree in the relevant discipline from Indian Statistical Institute with at least 75% in the aggregate without any back-paper or compensatory examination in any course during the entire programme, and is applying within two years of graduating, the written test will be waived.

  These candidates will be included in Stage II shortlist with fixed scores in the Written Test I and Written test II. The score of all such candidates in Written Test I and Written Test II will be computed as

$$\frac{3}{4} \times WT_{max},$$

  where WT_{max} is the maximum marks in the ISI Written test (Written Test I or Written test II) prescribed for the programme.

4 Remarks

4.1 Declarations of parameters

1. The weights of Written Tests in Stage III, namely A_2 and B_2, for M. Tech (CS) and M. Tech (CrS) will remain the same as the weights A_1 and B_1 in Stage II.

2. The ratio [C x Interview Score] : [A_2 x Test I Score + B_2 x Test II Score + C x Interview] will not exceed 0.25 for non-JRF Programs. For JRF programs this ratio will not exceed 0.5.

4.2   Lists: Prepartion/Publishing

1. Not all stages under 3.1 and 3.2 are mandatory; A selection process may have less number of stages. However, scores of all written tests and interview must contribute towards the final selection of a candidate.

2. For programs that use only one written test followed by interview, Stage II preparation is to be omitted.

3. If a candidate is shortlisted at any stage under relaxed reservation norms then the candidate (if shortlisted in future stages) shall remain on the reserved category lists.

Selection Parameters for Admission 2020 – 2021

Table - I

Program name	Number of seats (N)	Maximum Marks			Stage 1	Stage 2			Stage 3			
		Test I	Test II	Interview	p_1	A_1	B_1	p_2	A_2	B_2	C	p_3
B Stat	50	120	80	10	7	1	3	2	1	3	12	1.3
B Math	50	120	80	40	10	2	9	2.5	2	9	6	1.5
M Stat	30	120	120	120	6.5	1	2	1.8	1	2	1	1.2
M Math	20	120	80	10	6	1	3.5	2	1	3.5	13	1.25
MS (QE)	45*	120	100	100	5	1	2	2	1	3	1	5/3
MS (QMS)	16	120	120	50	4	1	2	1.5	1	2	2	1.5
MS LIS	10	120	120	60	5	1	2	5.5	1	2	3	1.5
M Tech (CS)	35	120	100	40	8	1	2	4	1	2	2	1.4
M Tech (CrS)	20	120	100	40	8	1	2	4	1	2	2	1.4
M Tech (QROR)	25	120	120	120	4	2	3	1.1	3	5	2	1.04
PGD ARSMA	15	120	NA	30	1.4		NA		1	NA	1	1.4
PGD SMA	30^+15**	120	NA	20	1.6	NA	NA	NA	1	NA	2	1.2

* These include 27 seats in Delhi and 18 seats in Kolkata

^ These include 15 seats in Chennai and 15 seats in Tezpur (ISI North East centre)

** These seats are reserved for domicile of North East States. Selection policy will be separately applicable to this category.

Selection Parameters for Admission 2020 – 2021

Table - II

Program Name	Number of seats	Maximum Marks			Stage I			Stage 2				Stage 3			
		Test I	Test II	Interview	p_1	q_1	q_1'	A_1	B_1	p_2	q_2	A_2	B_2	C	p_3
JRF in Statistics	10	120	120	100		20	20	2	3	1.5		2	3	4	1.2
JRF in Mathematics	12	100	100	100	3.5							2	2	1	1.25
JRF in Quantitative Economics	5	100	100	100		25	25	1	1	5		1	1	2	3
JRF in Computer Science	16+5	120	100	40				1	3	2		1	3	4.5	1.2
JRF in Quality, Reliability and Operations Research	5	120	120	50	4	2		1	2	2		1	2	3	1.4
JRF in Physics and Applied Mathematics	4+1	120	100	50		40			0.9		40		0.9	1	2
JRF in Development Studies	2	120	100	10	18			50	50	8		20	30	50	2
JRF in Biological Science	1+1	120	90	100	25			1	2	5		1	2	1	2
JRF in Library and Information Science	3	120	100	100	4			1	2	4	35	1	2	3	1.5