

JEE
ADVANCED
2023

Information Brochure



Organized by
Indian Institute of Technology Guwahati

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V.1.0
December 22, 2022

Version control

Version No.	Release Date	Remarks
V.1.0	December 22, 2022	-----

<https://jeeadv.ac.in>

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PART I: THE INSTITUTES

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1. Indian Institutes of Technology

Indian Institutes of Technology (IITs) are institutions of national importance established through Acts of Parliament for fostering excellence in education. Over the years, IITs have created a world class educational platform that is dynamically sustained through quality teaching and internationally acclaimed research with excellent infrastructure and the best available minds. The faculty and alumni of IITs occupy key positions in academia and industry throughout the world and continue to make considerable impact on all sections of the society. At present, there are twenty three IITs across the country.

The primary objectives of IITs are as follows:

- To create an environment that encourages freedom of thought and pursuit of excellence and inculcate the necessary vision and self-discipline to achieve excellence.
- To build a solid foundation of scientific and technical knowledge and to prepare competent and motivated engineers and scientists.
- To kindle an entrepreneurial spirit among the students.
- To prepare the students to become outstanding professionals and contribute to nation building.

Admission to various undergraduate programs [*see [Clause 2. ACADEMIC PROGRAMS](#)*] across IITs is carried out through the Joint Entrance Examination (Advanced) [JEE (Advanced)]. The Joint Entrance Examination (Advanced) 2023 [JEE (Advanced) 2023] and the subsequent process of admission to the IITs shall be governed by the rules contained in this document, read in conjunction with the Business Rules of the Joint Seat Allocation Authority (JoSAA) 2023 (to be published separately).

ZONES, NAMES, LOCATIONS, AND ABBREVIATIONS OF THE TWENTY-THREE IITs

Zone	Institute	City	Abbreviation
East Zone	Indian Institute of Technology Kharagpur	Kharagpur	IITKGP*
	Indian Institute of Technology Bhubaneswar	Bhubaneswar	IITBBS
	Indian Institute of Technology (ISM) Dhanbad	Dhanbad	IIT(ISM)
	Indian Institute of Technology Bhilai	Bhilai	IITBH
Central Zone	Indian Institute of Technology Kanpur	Kanpur	IITK*
	Indian Institute of Technology (BHU) Varanasi	Varanasi	IIT(BHU)
	Indian Institute of Technology Indore	Indore	IITI
North-Central Zone	Indian Institute of Technology Delhi	New Delhi	IITD*
	Indian Institute of Technology Jammu	Jammu	IITJMU
	Indian Institute of Technology Jodhpur	Jodhpur	IITJ
North-East Zone	Indian Institute of Technology Guwahati #	Guwahati	IITG*
	Indian Institute of Technology Patna	Patna	IITP
North Zone	Indian Institute of Technology Roorkee	Roorkee	IITR*
	Indian Institute of Technology Mandi	Mandi	IITMandi
	Indian Institute of Technology Ropar	Ropar	IITRPR
South Zone	Indian Institute of Technology Hyderabad	Hyderabad	IITH*
	Indian Institute of Technology Madras	Chennai	IITM
	Indian Institute of Technology Palakkad	Palakkad	IITPKD
	Indian Institute of Technology Tirupati	Tirupati	IITT
West Zone	Indian Institute of Technology Bombay	Mumbai	IITB*
	Indian Institute of Technology Dharwad	Dharwad	IITDh
	Indian Institute of Technology Gandhinagar	Gandhinagar	IITGN
	Indian Institute of Technology Goa	Goa	IITGOA

* Zonal Coordinating IITs to conduct JEE (Advanced) 2023 examination.

Organizing Institute, JEE (Advanced) 2023 examination.

2. Academic Programs

Through JEE (Advanced), IITs offer admission into undergraduate courses leading to a Bachelors, Integrated Masters, Bachelor-Master Dual Degree in Engineering, Sciences, or Architecture. Both Bachelors and Masters degrees are awarded to candidates enrolled in the dual degree programs upon successful completion of the course curriculum requirements. In some of the IITs, students enrolled into the 4-year Bachelors program have the option to pursue B.Tech. (Honors) and/or B.Tech. with Minors. Dual Degree students may also pursue a Minor. Further, in some IITs, B.Tech. students also have the option to pursue Interdisciplinary Dual Degree, with Bachelors in the parent Department and Masters in some other Department. All the above options require fulfilment of certain academic performance related criteria. The types of academic programs offered at IITs and their minimum duration are given below*:

B.Tech.	Bachelor of Technology	4 years
B.S.	Bachelor of Science	4 years
B.Arch.	Bachelor of Architecture	5 years
Dual Degree B.Tech.- M.Tech.	Dual Degree Bachelor of Technology and Master of Technology	5 years
Dual Degree B.S.-M.S.	Dual Degree Bachelor of Science and Master of Science	5 years
Integrated M.Tech.	Integrated Master of Technology	5 years
Integrated M.Sc.	Integrated Master of Science	5 years

* Only those academic programs for which admission is based on JEE (Advanced) examination are shown here. These Institutes also have other academic programs, viz., B.Des., M.Tech., M.Sc., Joint M.Sc.-Ph.D., Joint M.Tech.-Ph.D., M.Des., Ph.D., etc. with different admission procedure and criteria not falling under the purview of JEE (Advanced).

However, not all the listed programs and courses are available in all the institutes. The relevant programs and courses offered in the academic year 2022-23 are given in [Annexure-III](#) (COURSES OFFERED IN THE ACADEMIC YEAR 2022-23). The programs that will be offered in the academic year 2023-24 will be announced by JoSAA 2023 during seat allocation (i.e. at the stage of filling-

in of choices for admission). An academic year usually starts in the month of July and ends in the month of June of the next year.

The programs are credit-based and thus offer the flexibility to progress at one's own pace. A minimum level of performance is essential for satisfactory progress. The medium of instruction is English in all the programs.

All Indian nationals who satisfy the eligibility criteria [*see [Clause 11 ELIGIBILITY CRITERIA FOR INDIAN NATIONALS FOR APPEARING FOR JEE \(ADVANCED\) 2023](#)*] can appear for JEE (Advanced) 2023. The successful candidates meeting the Class XII (or equivalent) performance criterion [*see [Clause 26](#)*] are eligible for admission into IITs. While allotting seats, policies as per Government of India rules are followed, depending on candidates' merit, category, and/or nationality. Foreign national candidates may also appear for JEE (Advanced) 2023. The details of the eligibility criteria for them are available at <https://jeeadv.ac.in/foreign.html>.

3. Reservation of Seats

Indian nationals belonging to certain categories are admitted under the seats reserved for them in accordance with the rules prescribed by the Government of India. The categories and the extent of reservation are as follows:

- General category belonging to Economically Weaker Section (GEN-EWS) – 10% of seats in every course. The benefit of reservation will be given only to those General category candidates who satisfy the conditions given in the OM No. 20013/01/2018-BC-II dated January 17, 2019 issued by the Ministry of Social Justice and Empowerment.
 - The criteria for GEN-EWS will be as per the prevailing norms and/or notifications of the Government of India.
- Other Backward Classes belonging to the Non-Creamy Layer (OBC-NCL) – 27% of seats in every course.

- OBCs should be listed in the current updated central list of OBCs (<http://www.ncbc.nic.in>).
- OBCs present in the state list but not covered in the central list of OBCs (as per the list in <http://www.ncbc.nic.in>) are NOT eligible to claim the reservation.
- The criteria for Non-Creamy Layer (OBC-NCL) will be as per the notification of Government of India.
- Candidates belonging to the creamy layer of OBC are NOT entitled for reservation. Such candidates are treated as belonging to the general (GEN), i.e. unreserved category, and they will be eligible only for the OPEN seats – the seats for which all candidates are eligible.
- Scheduled Caste (SC) – 15% of seats in every course.
- Scheduled Tribe (ST) – 7.5% of seats in every course.
 - The benefit of reservation will be given only to those castes and tribes that are mentioned in the respective central list of corresponding states published by the Government of India (websites: <https://socialjustice.gov.in>) and <https://ncst.nic.in>).
- Persons with Disability (PwD) with at least 40% impairment – 5% seats in each of OPEN, GEN-EWS, OBC-NCL, SC, and ST category seats (https://legislative.gov.in/sites/default/files/A2016-49_1.pdf).
 - Candidates with at least 40% impairment irrespective of the type of disability i.e. locomotor, visual or SEVERE dyslexic shall be eligible for the benefits of PwD sub-category.
 - Leprosy-cured candidates who are otherwise fit to pursue the courses are also included in PwD sub-category.
- Candidates belonging to the GEN-EWS, OBC-NCL, SC, ST, and PwD categories/sub-categories will be declared as qualified on the basis of a relaxed criterion [see [Clause 22. RANK LISTS](#)].

The category of a candidate as entered in the database, which will be made available by the JEE Apex Board [which conducts the JEE (Main) 2023 examination], will be final and shall remain the same in JEE (Advanced) 2023 examination. Requests for change of category will NOT be entertained.

Candidates must note that the benefit of reservation will be given to them subject to verification of documents. If it is discovered at any stage that a candidate has used a false / fake / incorrect document, or has furnished false, incorrect or incomplete information, in order to avail the benefit of reservation, then such a candidate shall be excluded from all admission processes. In case such a candidate has already been given admission, the admission shall stand cancelled.

4. Defence Service Candidates

Defence Service (DS) candidates are children of defence/paramilitary personnel killed or permanently disabled in action during war or peacetime operations¹. Two seats are available for preferential allotment in each Institute for DS candidates. To avail this preferential allotment, a DS candidate must be in the Common Rank List of JEE (Advanced) 2023 [*see [Clause 22. RANK LISTS](#)*].

5. Supernumerary Seats for Female Candidates

Following the directions of the Ministry of Education, Government of India², and the decision taken by the IIT Council, supernumerary seats have been created for female candidates for improving the gender balance in the undergraduate programs in IITs. These supernumerary seats will be offered (a) to only those female candidates who are declared qualified in JEE (Advanced) 2023, and, (b) strictly based on the performance in JEE (Advanced) 2023.

The number of supernumerary seats in various programs will be decided by individual IITs ensuring that every institute has at least 20% female enrolment

¹No. 321/Adm/Misc/Vol-I, dated 22 October, 2020

²Reference: F.No.35-8/2017-TS.III dated 30th October, 2017

in undergraduate program(s). The detailed procedure for implementation of the above shall be set out in the Business Rules of JoSAA 2023 (which will be made available subsequently on <https://josaa.nic.in>).

6. Foreign Nationals

Candidates who are NOT citizens of India (by birth or naturalized) and/or are OCI/PIO card holders are treated as foreign nationals³. Seats allotted to such foreign national candidates are supernumerary with a cap of 10% of total number of seats in every course. These candidates are outside the ambit of reservation of seats under the GEN-EWS, OBC-NCL, SC, ST, and PwD categories / sub-categories, as specified herein. There are no separate supernumerary seats or sub-category for females in the foreign national supernumerary seats.

The foreign national candidates **who have studied or are studying in India/abroad at 10+2 level or equivalent** at the time of registering for JEE (Advanced) 2023 are NOT required to write JEE (Main) 2023 and may register for JEE (Advanced) 2023 directly subject to fulfilment of other eligibility criteria (for details refer to <https://jeeadv.ac.in/foreign.html>).

7. Other Institutes admitting using JEE (Advanced) rank

Some centrally funded institutes (listed below) have used JEE (Advanced) ranks in the past. These include:

- Indian Institute of Science, Bengaluru
- Indian Institutes of Science Education and Research (IISERs) located in Berhampur, Bhopal, Kolkata, Mohali, Pune, Thiruvananthapuram, and Tirupati
- Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram
- Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Rae Bareli

³ Reference: (The Gazette of India) No. CG-DL-E04032021-225647, dated: 4th March, 2021 [S.O 1050(E)]

- Indian Institute of Petroleum & Energy (IPE), Visakhapatnam

Candidates should contact these institutes directly for additional information regarding admission.

PART II: THE EXAMINATION

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8. The Examination

The Joint Entrance Examination (Advanced) 2023 [JEE (Advanced) 2023] will be conducted by the seven Zonal Coordinating IITs under the guidance of the Joint Admission Board 2023 (JAB 2023). The performance of a candidate in JEE (Advanced) 2023 will form the basis for admission to the Bachelors, Integrated Masters, and Dual Degree programs (entry at the 10+2 level), mentioned in clause 2, in all the IITs in the academic year 2023-24. The decisions of JAB 2023 will be final in all matters related to JEE (Advanced) 2023 and admission to IITs in the academic year 2023-24.

9. Schedule of JEE (Advanced) 2023

The examination consists of two papers (Paper 1 and Paper 2) of three hours duration each. **Appearing in both the papers is compulsory.** The examination schedule is as follows.

Date of Examination	June 04, 2023 (Sunday)
Paper 1	09:00 IST to 12:00 IST
Paper 2	14:30 IST to 17:30 IST

It may be noted that the examination date will remain unchanged even if it is declared a public holiday.

PwD candidates having disabilities with at least 40% impairment as applicable, are eligible for one hour compensatory time for each paper (i.e. for these candidates the end time will be 13:00 IST for Paper 1 and 18:30 IST for Paper 2). They must, however, fill in the requisite form [*see [Annexure-II: CERTIFICATE FORMATS](#)*] during registration for availing the compensatory time and/or availing the services of a scribe (amanuensis). Please see also [Clauses 14](#) and [15](#) for additional information.

Persons with less than 40% disability and having difficulty in writing covered under the definition of Section 2 (s) of the RPwD Act, 2016 but not covered

under the definition of Section 2(r) of the said Act are also eligible for one hour compensatory time for each paper (i.e. for these candidates the end time will be 13:00 IST for Paper 1 and 18:30 IST for Paper 2). They must, however, fill in the requisite form [*see [Annexure-II: CERTIFICATE FORMATS](#)*] during registration for availing the compensatory time and/or availing the services of a scribe (amanuensis). Please see also [Clauses 14](#) and [15](#) for additional information.

10. JEE (Main) 2023

Indian nationals who wish to appear for JEE (Advanced) 2023 are required to write the JEE (Main) 2023 paper for admission to B.E./B.Tech. programs conducted by the National Testing Agency (NTA). Foreign nationals who **have studied or are studying in India/abroad at 10+2 level or equivalent** and wish to appear for JEE (Advanced) 2023 are NOT required to write the JEE (Main) 2023. Further information about JEE (Main) 2023 may be obtained from the website <https://jeemain.nta.nic.in>.

11. Eligibility Criteria for Indian Nationals Appearing for JEE (Advanced) 2023

All the candidates **must simultaneously fulfil each and every one of the following five criteria** to appear for JEE (Advanced) 2023.

Criterion 1 – Performance in JEE (Main) 2023:

Candidates should be among the top 2,50,000 successful candidates (including all categories) in B.E./B.Tech. paper of JEE (Main) 2023.

The percentages of various categories of candidates to be shortlisted are: 10% for GEN-EWS, 27% for OBC-NCL, 15% for SC, 7.5% for ST, and the remaining 40.5% is OPEN for all. Within each of these five categories, 5% horizontal reservation is available for PwD candidates.

The following table shows the order to be followed while choosing the top 2,50,000 candidates in various categories based on the performance in B.E./B.Tech. paper of JEE (Main) 2023.

Category-wise distribution of top 2,50,000* candidates (Criterion 1)

Order	Category	Number of “Top” candidates	
1	OPEN	96187	101250
2	OPEN-PwD	5063	
3	GEN-EWS	23750	25000
4	GEN-EWS-PwD	1250	
5	OBC-NCL	64125	67500
6	OBC-NCL-PwD	3375	
7	SC	35625	37500
8	SC-PwD	1875	
9	ST	17812	18750
10	ST-PwD	938	

* The total number of candidates may be slightly greater than 2,50,000 in the presence of “tied” ranks / scores in any category.

Criterion 2 – Age limit:

Candidates should have been born on or after October 1, 1998. Five years age relaxation is given to SC, ST, and PwD candidates, i.e. these candidates should have been born on or after October 1, 1993.

Criterion 3 – Number of attempts:

A candidate can attempt JEE (Advanced) maximum of two times in two consecutive years.

Criterion 4 – Appearance in Class XII (or equivalent) examination*:

A candidate should have appeared for the Class XII (or equivalent) examination for the first time in either 2022 or 2023 with Physics, Chemistry, and Mathematics as compulsory subjects.

Candidates who had appeared in Class XII (or equivalent) examination for the first time in 2021 or earlier, are NOT eligible to appear in JEE (Advanced) 2023, irrespective of the combination of subjects attempted/offered.

** By appearance in Class XII (or equivalent) examination, it is meant that the Board concerned declared the result for that year irrespective of whether or not examination was conducted. It will be considered as an appearance even if the result of a particular candidate got withheld.*

However, if the examination Board of Class XII (or equivalent) declared the results for the academic year 2020-21 on or after October 25, 2021, then the candidates of that Board who appeared for their Class XII (or equivalent) examination in 2021 are also eligible to appear in JEE (Advanced) 2023, provided they meet all the other eligibility criteria. In case the examination Board of Class XII (or equivalent) declared the results for the academic year 2020-21 before October 25, 2021 but the result of a particular candidate was withheld, then the candidate will not be eligible to appear in JEE (Advanced) 2023.

Criterion 5 – Earlier admission at IITs:

A candidate should NOT have been admitted to an IIT irrespective of whether or not the candidate continued in the program OR accepted an IIT seat by reporting “online” / at a “reporting centre” in the past. Candidates whose admission to IITs was cancelled (for whatever reason) after joining any IIT are also NOT eligible to appear for JEE (Advanced) 2023.

Candidates who have been admitted to a preparatory course in any of the IITs for the first time in 2022 can appear in JEE (Advanced) 2023.

The candidates who were allocated a seat in an IIT through JoSAA 2022 but (i) did not report “online” / at any “reporting centre” OR, (ii) withdrew before the last round of seat allotment, OR, (iii) had their seat cancelled (for whatever reason) before the last round of seat allotment for IITs, are eligible to appear for JEE (Advanced) 2023.

However, in all of the above cases, the candidate is also required to fulfil the conditions mentioned from Criterion 1 to Criterion 4.

Eligibility criteria for foreign national candidates can be found at

<https://jeeadv.ac.in/foreign.html>

12. Online Registration for JEE (Advanced) 2023

Eligibility: All Indian nationals must simultaneously satisfy each and every one of the five eligibility criteria [see [Clause 11. ELIGIBILITY CRITERIA FOR INDIAN NATIONALS FOR APPEARING FOR JEE \(ADVANCED\) 2023](#)].

Registration will be cancelled if, at a later date, it is found that the candidate does not meet any of these five eligibility criteria.

Registration Portal: Candidates MUST register for appearing for JEE (Advanced) 2023. Registration is to be done only through the online registration portal where detailed instructions for registration will be provided.

For online registration	https://jeeadv.ac.in
Online registration begins	April 30, 2023 (Sunday, 10:00 IST)
Online registration closes	May 04, 2023 (Thursday, 17:00 IST)
Last date for fee payment for registered candidates	May 05, 2023 (Friday, 17:00 IST)

Foreign national candidates may check the link:

<https://jeeadv.ac.in/foreign.html>

13. Registration Fee for JEE (Advanced) 2023

Candidates who wish to appear for JEE (Advanced) 2023 must pay the registration fee, as mentioned in the following table.

Registration Fee		
Indian Nationals	Female Candidates (all categories)	₹ 1450
	SC, ST, and PwD Candidates	₹ 1450
	All Other Candidates	₹ 2900
Foreign Nationals (including PIO/OCI)	Candidates Residing in SAARC Countries	USD 90 [#]
	Candidates Residing in Non-SAARC Countries	USD 180 [#]

[#] Or equivalent in INR

- The registration fee shown above DOES NOT INCLUDE service charges, processing fees, and any other charges that the payment gateway/banks may levy. Registration fee once paid is non-refundable and non-transferable. All candidates have to reach the examination centre at their own expense and have to make their own arrangements to appear for the examination.
- Detailed instructions related to the payment of registration fee will be provided at the time of JEE (Advanced) 2023 registration on the online registration portal.

14. Services of a Scribe

- As per office memorandum of the Ministry of Social Justice and Empowerment⁴ the PwD candidates who are visually impaired OR dyslexic (severe) OR have disability in the upper limbs OR have lost fingers / hands thereby preventing them from properly operating the Computer Based Test platform may avail the services of a scribe (amanuensis).

⁴ Reference: F.No. 34-02/2015-DD-III dated August 29, 2018

- As per the office memorandum of Ministry of Social Justice and Empowerment⁵ candidates with less than 40% disability and having difficulty in writing may avail the services of a scribe (amanuensis). These candidates would also be governed by [Clause 15](#) below. These candidates would also be required to upload the requisite certificate duly signed by Medical Authority⁵.
- Candidates who desire to avail the services of a scribe need to opt for this during the online registration of JEE (Advanced) 2023.
- The scribe will help the candidate only in reading the questions and/or keying in the answers as per the directions of the candidate. A scribe will NEITHER explain the questions NOR suggest any solutions.
- To avail the services of scribe, the candidate should request the Chairperson, JEE (Advanced) 2023, of the nearest Zonal Coordinating IIT in the prescribed format ([FORM-SCRIBE \[I/II\]](#), whichever is applicable)). The requisition, along with a copy of the PwD certificate ([FORM-PwD \[II/III/IV\]](#), whichever is applicable) OR copy of the certificates of Dyslexic Candidate ([FORM-DYSLEXIC-1](#) and [DYSLEXIC-2](#)), whichever is applicable, OR copy of the certificate ([FORM-DISABILITY AND HAVING DIFFICULTY IN WRITING](#)) for the person with specified disability covered under the definition of Section 2 (s) of the RPwD Act, 2016 but not covered under the definition of Section 2(r) of the said Act, i.e. persons having less than 40% disability and having difficulty in writing, must be uploaded at the time of online registration for JEE (Advanced) 2023. The formats for the request letter and PwD/Dyslexic are given in [Annexure-II: CERTIFICATE FORMATS](#). The formats for the request letter, and person with less than 40% disability and having difficulty in writing certificate are also given in [Annexure-II: CERTIFICATE FORMATS](#).
- Zonal coordinating IITs will make necessary arrangements, through the Test Centre Administrator (TCA) of the Examination Centre, to provide a panel of

⁵Reference: F. No. 29-6/2019-DD-III dated August 10, 2022

scribes (amanuenses). Scribes will be students of Class XI from the science stream with Mathematics as one of the subjects. The PwD/dyslexic (severe)/persons having less than 40% disability and having difficulty in writing candidate has to choose a scribe from this panel. The candidates will NOT be allowed to bring their own scribes.

- The candidate will be allowed to meet the panel of scribes one day prior to the examination i.e. June 03, 2023 (Saturday) in the presence of the IIT Representatives (IRs), Test Centre Administrator (TCA), and an Invigilator, and choose any one of the scribes.
 - *If it is found at any stage that a candidate has availed the services of a scribe and / or availed the compensatory time, but does not possess the requisite extent of disability, and/or does not have difficulty in writing, that warrants the use of a scribe and / or grant of compensatory time, the candidate will be excluded from the process of evaluation, ranking, and admission. In case such a candidate has already been admitted to any IIT, the admission of the candidate will be cancelled.*

15. Documents Required for Registration

Given below is a list of documents/certificates whose scanned copies are to be uploaded at the time of online registration for JEE (Advanced) 2023. The formats of the certificates, which are indicated in the brackets, are given in [Annexure-II: CERTIFICATE FORMATS](#).

The candidates may note that documents for the purpose of admission to an IIT would only be verified at the stage of document verification when the candidate accepts the seat offered through JoSAA. Thus candidates are advised to upload the correct and complete documentation at the stage of registration itself.

All candidates

- Class X certificate if the date of birth is mentioned in it OR birth certificate.
- Class XII (or equivalent examination) certificate [for those who appeared first time for this examination in 2022 or whose Board declared the Class XII (or equivalent examination) result of academic session 2020-21 on or after October 25, 2021]. If mark sheet of Class XII (or equivalent examination) for 2023 is available, then it must be uploaded.
- If the candidate's name is not same as in the Class X certificate, gazette notification showing the change of name.

For Candidates seeking admission under the GEN-EWS category

- GEN-EWS certificate ([FORM-GEN-EWS](#)) should have been issued on or after April 01, 2023 in consonance with the latest guidelines of the Government of India.
- If any GEN-EWS candidate fails to submit the GEN-EWS certificate (issued on or after April 01, 2023) at the time of online registration, the candidate has to upload a declaration [[Declaration in Lieu of GEN-EWS Certificate](#)] to that effect⁶.

For Candidates seeking admission under the OBC-NCL category

- OBC-NCL certificate ([FORM-OBC-NCL](#)) should have been issued on or after April 01, 2023 in consonance with the latest guidelines of the Government of India. If any OBC-NCL candidate fails to submit the OBC-NCL certificate (issued on or after April 01, 2023) at the time of online registration, the candidate has to upload a declaration [[Declaration in Lieu of OBC-NCL Certificate](#)] to that effect. Visit <http://www.ncbc.nic.in> for latest guidelines and updates on the Central List of State-wise OBCs.

⁶ Reference: No.F.No.20013/01/2018-BC-II

For Candidates seeking admission under the SC or ST category

- Caste (for SC) or tribe (for ST) certificate ([FORM-SC/ST](#)), as per the latest guidelines of the Government of India.

For Candidates seeking admission under the PwD category

- Physical Disability certificate (Unique Disability Identification (UDID) Certificate or [FORM-PwD](#) [*II/III/IV, whichever is applicable*]) issued by the notified medical authority.
- Dyslexic candidates need to submit [FORM-DYSLEXIC 1](#) and [2](#) instead of FORM-PwD. The certificate must mention ‘SEVERE’ under Dyslexia category to enable the candidate to get the benefit of PwD category.
- Individual IITs constitute medical boards at the time of admission to test the candidate’s level of disability. The opinion of the medical board shall be final and on this basis, the benefit of PwD category may be allowed or withheld. If the benefit is withheld, the admission to the concerned IIT may be cancelled.

For candidates opting for compensatory time

- Letter to the Chairperson of the nearest Zonal Coordinating IIT by filling [FORM-COMPENSATORY TIME-I/II](#) [*see [ANNEXURE II: CERTIFICATE FORMAT](#)*] along with the copy of the Disability Certificate/Disability and having difficulty in writing Certificate.
 - *If it is found at any stage that a candidate has availed of compensatory time, but does not possess the requisite extent of disability, and/or does not have difficulty in writing, that warrants the same, the candidate will be excluded from the process of evaluation, ranking and admission. In case such a candidate has already been admitted to any IIT, the admission of the candidate will be cancelled. As with the case of PwD candidates, the opinion of medical board constituted by individual IIT shall be final.*

For Candidates needing the services of a scribe

- Request letter to the Chairperson of the nearest Zonal coordinating IIT by filling [FORM-SCRIBE-I/II](#) [see [ANNEXURE II: CERTIFICATE FORMAT](#)] along with the copy of the Disability Certificate/Disability and having difficulty in writing Certificate.
 - *If it is found at any stage that a candidate has availed of the services of a scribe, but does not possess the requisite extent of disability, and/or does not have difficulty in writing, that warrants the same, the candidate will be excluded from the process of evaluation, ranking and admission. In case such a candidate has already been admitted to any IIT, the admission of the candidate will be cancelled. As with the case of PwD candidates, the opinion of medical board constituted by individual IIT shall be final.*

For Candidates seeking admission under the DS category⁷

- Certificate ([FORM-DS](#)) issued by respective record offices of Armed Forces Personnel.

For candidates whose Class XII Examination Board is outside India or not listed in clause 25 [see [Clause 25. EXAMINATIONS CONSIDERED EQUIVALENT TO CLASS XII](#)]:

- A certificate from the Association of Indian Universities to the effect that the examination qualified by the candidates is equivalent to the Class XII examination.

Foreign national candidates should visit the link:

<https://jeeadv.ac.in/foreign.html>

⁷No. 321/Adm/Misc/Vol-I, dated 22 October, 2020

16. Admit Card

- Candidates who successfully register for JEE (Advanced) 2023 can download the admit card from the online registration portal: <https://jeeadv.ac.in>.

Admit card downloading schedule	May 29, 2023 (Monday, 10:00 IST) to June 04, 2023 (Sunday, 14:30 IST)
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- The admit card will bear the following details of the candidate: Name, Roll number for JEE (Advanced) 2023, photograph, signature, date of birth, address for correspondence and category.
- In addition, the admit card will have the name and address of the examination centre allotted to the candidate.
- Candidates should carefully examine the entries in the admit card and in case of any discrepancy, they should contact the Chairperson, JEE (Advanced) 2023 of the respective Zonal coordinating IIT.
- In case of any problem in downloading the admit card, the candidate should immediately contact the Zonal Chairperson, JEE (Advanced) 2023.
- A printout of the downloaded admit card and a valid ORIGINAL photo identity card (any one of the following: Aadhaar Card, School/College/Institute ID, Driving License, Voter ID, Passport, PAN Card, Notarized Certificate with photograph) MUST be produced at the time of examination, without which, the candidate will NOT be allowed to appear for the examination.

17. Question Papers

- JEE (Advanced) 2023 will consist of two question papers: Paper 1 and Paper 2 of three hours duration each. Appearing for both the papers is compulsory.
- Each question paper will consist of three separate sections, viz., Physics, Chemistry and Mathematics. The syllabi are given in [Annexure-I: SYLLABI](#).

- The question papers will consist of questions designed to test comprehension, reasoning and analytical ability of candidates.
- Negative marks may be awarded for incorrect answers for some of the questions. Details of the marking scheme will be provided in the “Instructions to Candidates” section at the time of examination.
- The candidates must carefully read and adhere to the detailed instructions given in the question papers available at the time of examination.
- The question papers will be in both English and Hindi languages. The candidates will have the option to choose (and also switch between) the preferred language anytime during the examination. English version will prevail in the event of any difference of opinion.
- Although sufficient care will be taken for the correctness of questions, in the event that a question(s) needs to be dropped, full marks for that question(s) will be awarded to ALL candidates.

18. Mode of Examination

The JEE (Advanced) 2023 examination will be conducted ONLY in the Computer Based Test (CBT) mode. To attain familiarity with the CBT mode candidates are advised to take mock tests available on the website <https://jeeadv.ac.in>.

Each candidate will be allotted a computer terminal (node) at the test centre. The welcome login screen of the CBT will display the photograph of the candidate allotted to that particular computer. For login, the candidate will have to enter the JEE (Advanced) 2023 roll number as login-id and enter the date of birth (in ddmmYYYY format) as password (e.g., if the candidate’s date of birth is 5th September, 2001, the password to be entered would be 05092001).

After login, the candidate would be able to see the detailed instructions for the examination. Candidates are advised to go through the instructions very carefully regarding the type of questions and marking scheme. At the designated

time of the beginning of the examination, the candidates will be able to proceed and see the questions on the computer screen. Candidates will have the option to choose (and also switch/toggle between) their preferred language (English or Hindi) during the entire period of the examination.

The keyboard attached to the computer, if any, will be disabled during the entire duration of the examination. Depending on the type of question, the answers to questions can either be entered by clicking on the virtual on-screen keyboard (numeric or otherwise) using the computer mouse or by clicking on the chosen option(s) using the computer mouse. Candidates will have the option to change/modify answers already entered any time during the entire duration of the examination.

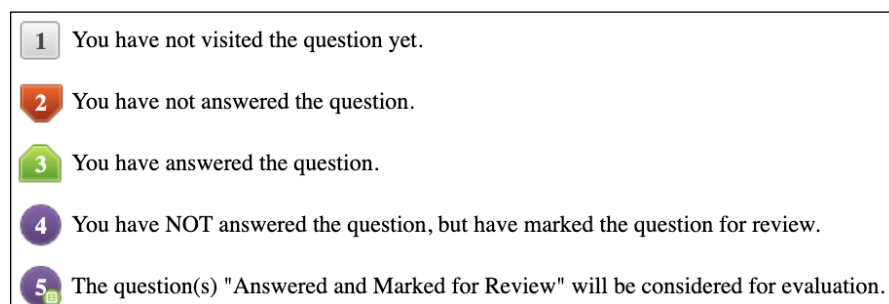
In case the computer/mouse allotted to any candidate malfunctions at any time during the test, the candidate will be immediately allotted another computer system and the time lost due to this will be automatically adjusted in the server so as to give the candidate the full allotted time of 3 hours (180 minutes) [4 hours (240 minutes) for PwD candidates /Persons with less than 40% disability and having difficulty in writing who opted for compensatory time] to answer the questions in each paper.

Each test centre will have representatives of the technical partner administering the examination as well as representatives of one or more of the IITs. The candidates may approach these representatives, through the invigilator, in case of any difficulty during the examination.



18.1. General Instructions for CBT:

- a. Total duration of each paper of JEE (Advanced) 2023 examination is of 3 hours (180 minutes) [4 hours (240 minutes) for PwD candidates/Persons with less than 40% disability and having difficulty in writing who opted for compensatory time] duration.

- b. The on-screen computer clock counter of every candidate will be set at the server. The countdown timer on the top right side of computer screen will display the time remaining (in minutes) available for the candidate to complete the examination. When the timer reaches zero, the examination will end by itself. Candidate will not be required to end or submit the examination.
- c. The Question Palette displayed on the right side of the screen will show the status of each question using one of the following symbols:



- d. The “Marked for Review” status for a question indicates that the candidate would like to have a relook at that question. A candidate has the option of answering a question and simultaneously marking the question “Marked for Review”. The answers to those questions will be considered for evaluation. However, if a candidate has simply put “Marked for Review” for a question without answering it, the corresponding question marked for review without an answer will not be considered for evaluation. It may be noted that a candidate can return to any “Marked for Review” question at any time during the examination by clicking on the corresponding question number icon displayed on the Question Palette of the corresponding section.
- e. The candidate can collapse the question palette and thereby maximize the question viewing window by clicking on the ">" symbol that appears to the left of the question palette. To view the question palette again, the candidate can click on "<" symbol that appears on the right side of question window.

- f. The Candidate can change the preferred language (English or Hindi) for displaying the questions, any time during the examination, by clicking on the dropdown menu in “View In” icon provided on the right side of the screen.
- g. In order to view the entire question, the candidate can scroll up and down or scroll left and right of the question viewing area using the computer mouse. The candidate can click on  icon to navigate to the bottom and  icon to navigate to the top of the question area without scrolling.
- h. The full paper can be viewed by clicking the “Question Paper” icon on the top right corner of the screen.
- i. *One Scribble Pad* for doing rough work/calculations will be provided to the candidates at the start of each paper. The *Scribble Pad* would have a header page for the candidates to write down their *Name* and *Registration Number*. These have to be signed by the candidate and countersigned by the Invigilator. Candidates are allowed to take their signed *Scribble Pads* back with them at the end of each paper of the examination. No extra scribble pad will be given to candidates.

18.2. Navigating to a Question:

To navigate between sections of the question paper, a candidate needs to click on the preferred section from all the displayed sections.

To navigate between questions within the same section, the candidate needs to do the following:

- a. Click on the question number in the Question Palette at the right side of the screen to go to that numbered question directly. Note that using this option does NOT save the answer to the currently displayed question.
- b. Click on “Save & Next” to save the answer to any question. Clicking on “Save & Next” will save the answer for the current question and

the next question will be displayed on the candidate's computer screen.

- c. Click on “Mark for Review & Next” to mark a question for review (with or without answering it) and proceed to the next question.

18.3. Answering a Question:

1. Procedure for answering a multiple-choice type question:
 - a. To select the option(s), click on the corresponding button(s) of the option(s).
 - b. To deselect the chosen answer, click on the button of the chosen option again or click on the “Clear Response” button.
 - c. To save the answer, the candidate **MUST** click on the “Save & Next” button.
 - d. To mark the question for review (with or without answering it), click on the “Mark for Review & Next” button.
2. Procedure for answering questions that require inputs from on-screen virtual keyboard (numeric or otherwise):
 - a. A virtual keyboard will appear on the screen just below the question statement of these types of questions. The candidate needs to use the on-screen virtual keyboard to enter the answer in the required space with the help of the provided computer mouse.
 - b. The answer can be changed, if required, at any time during the test. To save the answer, the candidate **MUST** click on the “Save & Next” button.
 - c. To mark the question for review (with or without answering it), click on the “Mark for Review & Next” button.

Candidate will have the option to change the previously saved answer to any question, any time during the entire duration of the test. To change the answer to a question that has already been answered, first select the

corresponding question from the Question Palette, then click on “Clear Response” to clear the previously entered answer and subsequently follow the procedure for answering that type of question.

18.4. Navigating through sections:

1. Sections in the question paper are displayed on the top bar of the screen. Questions in a section can be viewed by clicking on the section name. The section which the candidate is currently viewing will be highlighted.
2. After clicking the “Save & Next” button on the last question of a section, the candidate will be taken automatically to the first question of the next section.
3. The candidate can shuffle between the sections and the questions within any section any time during the period of examination as per convenience.
4. The candidate can view the corresponding section summary as part of the legend that appears in every section above the question palette.

19. Cities and Towns where JEE (Advanced) 2023 will be held

JEE (Advanced) 2023 will be held in selected cities and towns in India. Candidates have to compulsorily choose eight (8) cities/towns of their choice at the time of online registration. **Efforts will be made to allot the city/town from among the candidate’s choices, but a different city/town may be allotted under exceptional circumstances. Requests for change of city/town will NOT be entertained under any circumstances.** A tentative list of cities/towns where JEE (Advanced) 2023 examination will be held is given in the following table. The final list of examination cities/towns would be notified in the registration portal before the start of the online JEE (Advanced) 2023 registration. JEE (Advanced) 2023 will not be conducted in any centres outside India.

TENTATIVE LIST OF CITIES AND TOWNS FOR JEE (ADVANCED) 2023

City/Town	Code
IIT BOMBAY ZONE	
GOA	
Panaji	101
Margao/Madgoan	102
GUJARAT	
Ahmedabad	103
Anand	104
Bhavnagar	105
Bhuj	106
Gandhinagar	107
Himatnagar	108
Jamnagar	109
Junagadh	110
Mehsana	111
Rajkot	112
Surat	113
Vadodara	114
Vapi	115
Valsad	116
KARNATAKA	
Bagalkot	117
Belagavi (Belgaum)	118
Bellary	119
Bengaluru	120
Davanagere	121
Dharwad-Hubballi (Hubli)	122
Hassan	123
Kalaburagi (Gulbarga)	124
Mangaluru (Mangalore)	125
Mysuru (Mysore)	126
Shivamogga (Shimoga)	127
Tumakuru (Tumkur)	128
Udupi/Manipal	129
MAHARASHTRA	
Ahmednagar	130
Akola	131
Amravati	132
Aurangabad	133
Bhandara	134
Chandrapur	135
Dhule	136
Jalgaon	137
Kolhapur	138
Latur	139
Mumbai	140
Nagpur	141
Nanded	142
Nashik	143
Navi Mumbai	144
Palghar	145
Pune	146

City/Town	Code
Raigad	147
Sangamner	148
Sangli	149
Satara	150
Solapur	151
Thane	152
Vasai	153
Wardha	154
Yavatmal	155
IIT DELHI ZONE	
DELHI NCR	
Delhi (East)	201
Delhi (North)	202
Delhi (South)	203
Delhi (West)	204
Faridabad	205
Noida	206
JAMMU and KASHMIR	
Jammu	207
Srinagar	208
LADAKH	
Leh	209
RAJASTHAN	
Ajmer	210
Alwar	211
Bhilwara	212
Bikaner	213
Jaipur	214
Jodhpur	215
Kota	216
Sikar	217
Udaipur	218
IIT GUWAHATI ZONE	
ARUNACHAL PRADESH	
Naharlagun	301
ASSAM	
Dibrugarh	302
Guwahati	303
Jorhat	304
Silchar	305
Tezpur	306
BIHAR	
Arrah	307
Aurangabad	308
Bhagalpur	309
Darbhanga	310
Gaya	311
Muzaffarpur	312
Patna	313

City/Town	Code
Purnea	314
Rohtas	315
MANIPUR	
Imphal	316
MEGHALAYA	
Shillong	317
MIZORAM	
Aizawl	318
NAGALAND	
Kohima	319
SIKKIM	
Gangtok	320
TRIPURA	
Agartala	321
WEST BENGAL	
Siliguri	322
IIT KANPUR ZONE	
MADHYA PRADESH	
Bhopal	401
Indore	402
Jabalpur	403
Sagar	404
Satna	405
Ujjain	406
UTTAR PRADESH	
Gorakhpur	407
Jhansi	408
Kanpur	409
Lucknow	410
Prayagraj (Allahabad)	411
Varanasi	412
IIT KHARAGPUR ZONE	
ANDAMAN & NICOBAR ISLANDS	
Port Blair	501
ANDHRA PRADESH	
Srikakulam	502
Visakhapatnam	503
Vizianagaram	504
CHHATTISGARH	
Bilai	505
Bilaspur	506
Raipur	507

City/Town	Code
JHARKHAND	
Dhanbad	508
Hazaribagh	509
Jamshedpur	510
Ranchi	511
ODISHA	
Balasore	512
Berhampur (Ganjam)	513
Bhubaneswar	514
Cuttack	515
Jeypore	516
Rourkela	517
Sambalpur	518
WEST BENGAL	
Asansol	519
Baharampur (Murshidabad)	520
Burdwan	521
Durgapur	522
Kalyani (Nadia)	523
Kharagpur	524
Kolkata (North)	525
Kolkata (South)	526
IIT HYDERABAD ZONE	
ANDHRA PRADESH	
Amalapuram	601
Ananthapur	602
Bhimavaram	603
Chirala	604
Chittoor	605
Eluru	606
Gudlavalleru	607
Gudur	608
Guntur	609
Kadapa	610
Kakinada	611
Kurnool	612
Markapur	613
Mylavaram	614
Narasaraopet	615
Nellore	616
Ongole	617
Rajahmundry	618
Surampalem	619
Tadepalligudem	620
Tirupathi	621
Vijayawada	622
KERALA	
Alappuzha	623
Kannur	624
Kasaragod	625
Kochi	626
Kollam	627

City/Town	Code
Kottayam	628
Kozhikode	629
Malappuram	630
Palakkad	631
Thiruvananthapuram	632
Thrissur	633
PUDUCHERRY	
Puducherry	634
TAMIL NADU	
Chennai	635
Coimbatore	636
Madurai	637
Salem	638
Thanjavur	639
Tiruchirapalli	640
Tirunelveli	641
Vellore	642
Nagercoil	643
Namakkal	644
Virudhunagar	645
TELANGANA	
Adilabad	646
Hyderabad	647
Karimnagar	648
Khammam	649
Kodad	650
Kothagudem	651
Mahabubnagar	652
Nalgonda	653
Nizamabad	654
Sathupally	655
Siddipet	656
Suryapet	657
Warangal	658
IIT ROORKEE ZONE	
CHANDIGARH	
Chandigarh	701
HARYANA	
Ambala	702
Hisar	703
Kurukshehra	704
HIMACHAL PRADESH	
Bilaspur	705
Hamirpur	706
Shimla	707
MADHYA PRADESH	
Gwalior	708
PUNJAB	
Amritsar	709

City/Town	Code
Bathinda	710
Jalandhar	711
Ludhiana	712
Mohali	713
Patiala	714
UTTARAKHAND	
Dehradun	715
Haldwani	716
Roorkee	717
UTTAR PRADESH	
Agra	718
Aligarh	718
Bareilly	719
Ghaziabad	720
Mathura	721
Meerut	722
Moradabad	723
Muzaffarnagar	724
Saharanpur	725

20. Important instructions to be followed on the day of the examination

- Candidates **MUST** carry a printed copy of the **downloaded** admit card and their **valid original photo identity card** (any one of the following: Aadhaar Card, School/College/Institute ID, Driving License, Voter ID, Passport, PAN Card, Notarized Certificate with photograph) for the examination. Only candidates having a valid admit card and photo identity card will be allowed to write the examination.
- The candidate's identity will be verified at the examination centre by invigilators as well as IIT representatives. If the identity of the candidate is in doubt, the candidate may not be allowed to appear for the examination. However, the IIT authorities, at their discretion, may provisionally permit the candidate to appear for the examination after completing certain formalities. No extra time will be allowed for completing the examination in lieu of the time taken for completing these formalities. In such cases where the candidate is permitted to provisionally appear for the examination, the decision of the Zonal Chairperson, JEE (Advanced) 2023 on the issue, shall be final.
- Impersonation and/or use of unfair means in the examination are considered as serious offences and will lead to disqualification of one's candidature from JEE (Advanced) 2023 and all admission related processes. It may also lead to legal action against such candidates.
- All candidates will be subjected to extensive and compulsory frisking before entering the Examination Centre. The JEE (Advanced) 2023 will issue appropriate and comprehensive instructions to the staff and other officials at the Examination Centres, including for frisking of female candidates.
- Only pens, pencils, drinking water in transparent bottle, downloaded admit card and an original photo identity card are allowed to be taken inside the examination hall. The following items will **NOT** be allowed inside the examination centre: smart/ digital/programmable/analog watches, mobile

phones, Bluetooth devices, earphones, microphones, pagers, health bands or any other electronic gadgets, any printed/blank/hand written paper, log tables, writing pads, scales, eraser, geometry/pencil-boxes, pouches, calculators, pen drives, electronic pens/Scanner, wallets, handbags, camera, goggles or similar such items.

- Candidates are advised NOT to wear charm/taweez, items containing metals such as ring, bracelet, earrings, nose pin, chain/necklace, pendant, badge, brooch, clothes with big buttons. They are also advised to wear open footwear like chappals and sandals.
- Any other item which could be used for unfair means, or for hiding communication devices like a microchip, camera, Bluetooth device, etc., is not permitted.
- Candidates are strongly advised to bring drinking water in a transparent bottle.
- Candidates must report to the examination centres well in advance, and carry out the requisite formalities which will be mentioned in the admit card. Examination centres shall remain open from 07:00 IST.
- Candidates arriving at the examination centre after commencement of the examination in each paper (09:00 IST for Paper 1 and 14:30 IST for Paper 2) will not be allowed to take the examination under any circumstances. The main entrance of the examination centre will be closed at 9:00 hrs (IST) for Paper 1 and at 14:30 hrs (IST) for Paper 2.
- Candidates are required to be present in the examination hall for the entire duration of each paper. They CANNOT leave the examination hall before 12:00 IST for Paper 1 and before 17:30 IST for Paper 2.
- Appearing in both Paper 1 and Paper 2 is compulsory. Therefore, the responses of ONLY those candidates who have appeared for both Paper 1 and Paper 2 will be evaluated/graded.

- Currently no COVID-19 related restrictions issued by Government of India are in place. In the event that the same are made applicable around the time of examination, an appropriate message will be displayed on the JEE (Advanced) 2023 website for the information of the candidates.

21. Transmission of candidate responses and online display of answer keys

- The responses of the candidates who have appeared for BOTH Paper 1 and Paper 2, recorded during the examination, will be available for viewing, downloading and printing from the JEE (Advanced) 2023 candidate portal (to visit candidate portal, refer to <https://jeeadv.ac.in>).
- Provisional answer key is ONLY tentative and is subject to change.
- The provisional answer keys for both Paper 1 and Paper 2 will be displayed on the JEE (Advanced) 2023 online portal. After the display of provisional answer keys, the candidates may submit their feedback, if any, on the candidate portal.
- The final answer keys will be displayed on the website, after considering the candidates' feedback, as per the following schedule. The marks will be awarded in accordance with the final answer key:

Copy of candidate responses to be available on the JEE (Advanced) 2023 website: https://jeeadv.ac.in	June 09, 2023 (Friday, 17:00 IST)
Online display of provisional answer keys on https://jeeadv.ac.in	June 11, 2023 (Sunday, 10:00 IST)
Receiving feedback from candidates on provisional answer keys through candidate portal	June 11, 2023 (Sunday, 10:00 IST) to June 12, 2023 (Monday, 17:00 IST)
Online display of final answer keys on https://jeeadv.ac.in	June 18, 2023 (Sunday, 10:00 IST)

22. Rank Lists

- Only candidates who appear for BOTH Paper 1 and Paper 2 will be considered for ranking.
- The marks obtained by a candidate in Physics in JEE (Advanced) 2023 will be equal to the marks scored in the Physics part of Paper 1 plus the marks scored in the Physics part of Paper 2. Marks obtained in Chemistry and Mathematics will be calculated in the same way.
- The aggregate marks obtained by a candidate in JEE (Advanced) 2023 will be the sum of the marks awarded to the candidate in Physics, Chemistry and Mathematics.
- Rank lists are prepared based on the aggregate marks in JEE (Advanced) 2023.
- If the aggregate marks scored by two or more candidates are the same, then the following tie-break policy will be used for awarding ranks:

Step 1: Candidates having higher positive marks will be awarded higher rank.

If the tie breaking criterion at Step 1 fails to break the tie, then the following criterion at Step 2 will be followed.

Step 2: Higher rank will be assigned to the candidate who has obtained higher marks in Mathematics. If this does not break the tie, higher rank will be assigned to the candidate who has obtained higher marks in Physics. If there is a tie even after this, candidates will be assigned the same rank.

- Rank lists for preparatory courses [*see [Clause 28. PREPARATORY COURSES](#)*] will be prepared for SC, ST, and PwD candidates in all categories who satisfy the prescribed relaxed criteria given below.
- A candidate is said to have qualified in JEE (Advanced) if he/she secures the minimum percentage of marks in each subject and in aggregate, as per respective category and as per the table given below. A candidate who

qualifies in more than one category will be considered in all the categories to which he/she belongs for the purpose of ranking.

- There will be no waiting list for ranking.
- Only those candidates who score the minimum prescribed marks in each subject AND also in aggregate will be included in the rank list. The minimum prescribed marks vary with the category as shown in the following table.

Minimum percentage of marks prescribed for inclusion in the rank list

Rank List	Minimum percentage of marks in each subject	Minimum percentage of aggregate marks
Common rank list (CRL)	10.0	35.0
GEN-EWS rank list	9.0	31.5
OBC-NCL rank list	9.0	31.5
SC rank list	5.0	17.5
ST rank list	5.0	17.5
Common-PwD rank list (CRL-PwD)	5.0	17.5
GEN-EWS-PwD rank list	5.0	17.5
OBC-NCL-PwD rank list	5.0	17.5
SC-PwD rank list	5.0	17.5
ST-PwD rank list	5.0	17.5
Preparatory course rank lists	2.5	8.75

NOTE: (i) CRL is the rank list in which all candidates (across all categories) will be given ranks. (ii) Minimum percentage of aggregate marks may be lowered subsequently, if required, as per the MHRD directive (F.No. 28-8/2017-T.S.-I) dated June 13, 2018.

23. Results of JEE (Advanced) 2023

- Results will be declared on June 18, 2023 (Sunday). Category-wise All India Ranks (AIR) of successful candidates will be available through the JEE (Advanced) 2023 online portal after the results are declared. Text messages will also be sent to the candidates to their registered mobile numbers.
- Individual rank cards will NOT be sent to candidates.

- Qualifying in JEE (Advanced) 2023, filling in choices and/or participating in the joint seat allocation process do not guarantee a candidate admission to IITs. Admission will depend on merit and the availability of seats during various rounds of seat allocation.

24. Architecture Aptitude Test for B.Arch. program

- B. Arch. program is available at IIT (BHU) Varanasi, IIT Kharagpur and IIT Roorkee only. Candidates desirous of joining the B. Arch. (Architecture) program will have to PASS the Architecture Aptitude Test (AAT).
- Only those candidates who have qualified in JEE (Advanced) 2023 are eligible to appear in AAT 2023.
- Apart from passing the Architecture Aptitude Test (AAT), the criterion of performance in Class XII (or equivalent) board examination [*see [Clause 26. PERFORMANCE IN CLASS XII \(OR EQUIVALENT\) BOARD EXAMINATION](#)*] will remain the same for B. Arch. program admission.
- Syllabus for AAT is given in [Annexure-I: SYLLABI](#).
- Candidates must register online at the JEE (Advanced) 2023 online portal for AAT as per the time schedule set out below.
- AAT will be conducted at all IITs.
- The test will consist of one paper of three hours duration.
- The question paper for AAT will be available only in the English language.
- No separate admit card will be issued for AAT. The downloaded admit card of JEE (Advanced) 2023 has to be printed and produced in the AAT examination hall, along with original photo identity card.
- Candidates should bring their own drawing and colouring aids.
- The Joint Implementation Committee of JEE (Advanced) 2023 will decide the cut-off marks for passing AAT.
- Results of AAT will be declared on the JEE (Advanced) 2023 online portal.

- Candidates securing marks above the cut-off will be declared PASS in the test. There is no separate ranking in the AAT.
- Allotment of seats will be solely based on the category-wise All India Rank in the JEE (Advanced) 2023 and B. Arch. program will be offered only to those candidates declared PASS in the AAT.

Schedule of AAT

Portal for AAT Registration	https://jeeadv.ac.in
Online Registration for AAT	June 18, 2023, (Sunday, 10:00 IST) to June 19, 2023, (Monday, 17:00 IST)
Architecture Aptitude Test	June 21, 2023 (Wednesday) 09:00 to 12:00 IST (Candidate must reach examination centre by 08:00 IST)
Declaration of AAT Results	June 25, 2023 (Sunday), 17:00 IST

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PART III: ADMISSION

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25. Examinations Considered as Equivalent to Class XII

- The final examination of the 10+2 system, conducted by a Central or State Board recognized by the Association of Indian Universities (AIU).
- Intermediate or two-year Pre-University examination conducted by a Board or University recognized by the Association of Indian Universities.
- Final examination of the two-year course of the Joint Services Wing of the National Defence Academy.
- Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.
- Any Public School, Board or University examination in India or in a foreign country recognized as equivalent to the 10+2 system by the AIU.
- H.S.C. vocational examination.
- A Diploma recognized by the All India Council for Technical Education (AICTE) or a State Board of Technical Education of at least 3 years duration.
- General Certificate Education (GCE) examination (London, Cambridge or Sri Lanka) at the Advanced (A) level.
- High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.
- Candidates who have completed Class XII (or equivalent) examination outside India or from a Board not specified above should produce a certificate from the AIU to the effect that the examination they have passed is equivalent to the Class XII examination.
- In case the Class XII examination is not a public examination, the candidate must have passed at least one public (Board or Pre-University) examination earlier.

26. Performance in Class XII (or Equivalent) Board Examination for admission to IITs

- The Candidates must satisfy at least one of the following two criteria with Physics, Chemistry and Mathematics as compulsory subjects in the year of first appearance in the Class XII (or equivalent examination):
 1. Must have secured at least 75% aggregate marks in the Class XII (or equivalent) Board examination. The aggregate marks for SC, ST and PwD candidates should be at least 65%.
 2. Must be within the category-wise top 20 percentile of successful candidates in their respective Class XII (or equivalent) board examination.

The percentile calculation will be done for all the required subjects, in a single academic year only. Therefore, candidates appearing for improvement in Board examinations can EITHER appear in one or more subjects and secure 75% aggregate marks (65% for SC, ST and PwD) after improvement, OR, appear for improvement in ALL subjects to be in top 20 percentile (see Section titled “Regarding the cut-off marks for the top 20 percentile”) of the corresponding academic year.

- The marks scored in the following five subjects will be considered for calculating the aggregate marks and the cut-off marks for fulfilling the top 20 percentile criterion.
 - i. Physics
 - ii. Chemistry
 - iii. Mathematics
 - iv. A language (if the candidate has taken more than one language, then the language with the higher marks will be considered)
 - v. Any subject other than the above four (the subject with the highest marks will be considered).

- For calculation of the total marks for five subjects, if the marks awarded in a subject is NOT out of 100, then the marks will be scaled (up or down) to 100 so that the total aggregate marks is out of 500.
- If a Board awards only letter grades without providing an equivalent percentage of marks on the grade sheet, the candidate should obtain a certificate from the Board specifying the equivalent marks and submit it at the time of acceptance of the allocated seat. In case such a certificate is not provided, the decision taken by the Joint Implementation Committee of JEE (Advanced) 2023 will be final.
- For candidates who appeared in the Class XII (or equivalent) Board examination for the first time in 2022 and reappeared in ALL subjects (for whatsoever reason) in 2023, the best of the two performances will be considered.
- If a Board gives aggregate marks considering both Class XI and Class XII examinations (in the 10+2 system), then only Class XII marks will be considered. If a Board gives aggregate marks considering the results of all three years of a 3-year diploma or courses of equivalent duration, then the marks scored only in the final year will be considered. Similarly, for Boards which follow a semester system, the marks scored in the final two semesters will be considered.
- In case any of the subjects Physics, Chemistry, Mathematics and Language are not evaluated in the final year (e.g., in a 3-year diploma course), then the marks for the same subject from the previous year/s will be used for calculating percentage of aggregate marks.
- If a Board does not give marks scored in individual subjects but gives only the aggregate marks, then the aggregate marks given by the Board will be considered as such.

- The above will also apply correspondingly to those candidates who first appeared for their Class XII examination in 2021 but the examination Board of Class XII (or equivalent) declared the results for the academic year 2020-21 on or after October 25, 2021.

For eligibility criteria foreign candidates may follow the link

<https://jeeadv.ac.in/foreign.html>

26.1. Regarding the cut-off marks for the top 20 percentile

- The category-wise cut-off marks for the top 20 percentile are calculated based on the marks scored by the successful candidates who appeared in their respective boards for all the required subjects, in the particular year.
- The cut-off marks for PwD candidates will be the same as the lowest of the cut-off marks for GEN, OBC-NCL, SC and ST categories.
- It is clarified that top 20 percentile cut-off for the academic year 2022–23 will be considered against the successful candidates who appeared in the Class XII (or equivalent) examination in 2023.
- Similarly, top 20 percentile cut-off for the academic year 2021–22 will be considered against the successful candidates who appeared in the Class XII (or equivalent) examination in 2022.
- Candidates who appeared in Class XII (or equivalent) examination for the first time in 2022 and wish to (or have to) reappear in 2023 with the objective to qualify through top 20 percentile cut-off criteria, must reappear in all the subjects. For such candidates, top 20 percentile cut-off for 2023 will be considered.
- In case a Board does not provide information about the cut-off for the top 20 percentile, the candidate will have to produce a certificate from the respective Board stating that he/she falls within the top 20 percentile of successful candidates. If the candidate fails to do so, then

the cut-off marks, in the respective categories, for the Central Board of Secondary Education will be used.

- The above will also apply correspondingly to those candidates who first appeared for their Class XII examination in 2021 but the examination Board of Class XII (or equivalent) declared the results for the academic year 2020-21 on or after October 25, 2021.

26.2. Regarding the aggregate marks of 75% (or 65% for SC, ST and PwD)

- The aggregate marks scored by the candidate in the 2023 Class XII (or equivalent) Board examination will be considered for candidates who will appear in the Class XII examination in 2023.
- The aggregate marks scored by the candidate in the 2022 Class XII (or equivalent) Board examination will be considered provided the candidate does not reappear in the Class XII (or equivalent) examination in 2023 in any of the subjects.
- If a candidate had appeared in his/her Class XII (or equivalent) in 2022 and wishes to improve his/her aggregate marks to meet the “aggregate marks of 75% (or 65% for SC, ST and PwD) criterion”, he/she can reappear for any number of subjects he/she wishes for improvement. The percentage marks in this situation will be calculated by considering the marks obtained in 2022 or 2023, whichever is higher, in the respective subjects, in his/her two attempts in 2022 and 2023.
- The above will also apply correspondingly for the candidates who first appeared for their Class XII examination in 2021 but the examination Board of Class XII (or equivalent) declared the results for the academic year 2020 - 21 on or after October 25, 2021.

27. Joint Seat Allocation

- The seats across IITs, NITs, IIITs and other Government Funded Technical Institutes (GFTIs) will be offered and allocated through a common process by the Joint Seat Allocation Authority (JoSAA), to be held in online mode for current year.
- The candidates who secured a Rank in JEE (Advanced) 2023 are eligible to participate in Joint Seat Allocation process for a seat at an IIT.
- All the candidates who are eligible for admission will have to participate in the joint seat allocation process by filling in their preferential choices of the courses and institutes.
- The detailed instructions for filling-in the choices and the seat allotment procedure will be made available by JoSAA through Seat Allotment Business Rules.
- The schedule of the joint seat allocation will be announced separately by JoSAA 2023.
- The list of courses that will be offered by the IITs for admission for the academic year 2023-24 will be made available at the time of online filling-in of choices.

28. Preparatory Courses

- The seats reserved for SC, ST and PwD candidates which remain vacant will be allotted to the candidates of respective categories for admission to a preparatory course of one-year duration on the basis of relaxed admission criteria [*see [Clause 22. RANK LISTS](#)*].
- Admission is given to the candidates in the preparatory course provided (i) the seats reserved for the respective category are vacant, (ii) candidates satisfy minimum norms, and (iii) candidates have not accepted a seat in the preparatory course earlier.

- Selected IITs will run preparatory courses of one-year duration for SC, ST and PwD candidates intended to prepare them to pursue the academic program (for Academic Year 2024-25) to which they have been allocated. At the end of this course, candidates are declared as ‘pass’ or ‘fail’. The institute at which one-year preparatory course is run for a candidate may be different from the institute allocated to the candidate for their academic program.
- On successful completion of the course, the candidates will be offered direct admission in 2024 (Academic Year 2024-25) to the already allotted undergraduate course at the originally allocated IIT.
- Candidates admitted to the preparatory course in 2023 are eligible to appear for JEE (Advanced) 2024 subject to fulfilling other eligibility criteria [see [Clause 11. ELIGIBILITY CRITERIA FOR INDIAN NATIONALS FOR APPEARING FOR JEE \(ADVANCED\) 2023](#)].
- Filling-in of choices for preparatory courses is to be completed through the JoSAA online portal.

29. Additional Requirements for Certain Courses

- Those who opt for B.Tech. in Mining Engineering/Mining Machinery Engineering OR B.Tech.-M.Tech. Dual Degree in Mining Engineering/Mining Safety Engineering OR Integrated M.Tech. in Applied Geology/Applied Geophysics OR Integrated M.Sc. in Applied Geology/Exploration Geophysics, must not have any form of colour blindness. A certificate to this effect from a govt. registered medical practitioner has to be uploaded at the time of online reporting for seat acceptance. IITs may constitute a medical board to test the validity of the candidate’s medical condition. The opinion of the medical board shall be final and on this basis, the admission to the concerned IIT may be cancelled if it is found that the candidate suffers from any form of colour blindness.

- PwD candidates cannot opt for B.Tech. in Mining Engineering/Mining Machinery Engineering OR B.Tech.-M.Tech. Dual Degree in Mining Engineering/Mining Safety Engineering OR Integrated M.Tech. in Applied Geology/Applied Geophysics.
- PwD candidates with locomotor disability cannot opt for Integrated M.Sc. in Applied Geology/Exploration Geophysics.
- The standards of visual acuity with or without glasses will be adhered to strictly for candidates seeking admission to Mining Engineering as per DGMS Circular 14 of 1972. Persons with one-eyed vision are not permitted to work underground. Candidates with these limitations are not allowed to opt for admission to Mining Engineering and Mining Machinery Engineering.

30. Gender Restriction for Mining Engineering Profession

- Section 46 (1) of the Mines Act, 1952 states that

“No woman shall, notwithstanding anything contained in any other law, be employed

(a) in any part of a mine which is below ground,

(b) in any mine above ground except between 6:00 and 19:00 hrs.”

However, female candidates will be admitted to Mining Engineering or Mining Machinery Engineering related courses at IIT (ISM) Dhanbad, IIT Kharagpur and IIT (BHU) Varanasi.

31. List of Courses Offered by IITs in the Academic Year 2022-23

The relevant courses offered by IITs in the academic year 2022-23 are given in [Annexure–III](#). Some of the courses have additional requirements and these are marked as AR. The courses to be offered by the various Institutes in the Academic Year 2023-24 may vary. A few of the courses offered in 2022 may

not be offered at all or may be modified (course title and/or content). It is also possible that a few new courses will be offered. The additional requirements may also change. The final list will be made available in the JoSAA 2023 on-line portal at the time of filling-in of the choices for seat allocation.

32. Important Dates

Important dates of various activities regarding JEE (Advanced) 2023 and AAT 2023 are presented in [Annexure - IV](#). Changes in the date(s), if any, will ONLY be published on the official website (<https://jeeadv.ac.in>). Candidates are therefore, advised to visit the official website from time to time to check for updates.

33. Queries and Grievances

All stages of JEE (Advanced) 2023 will be conducted with transparency, strictly in accordance with this Information Brochure. Should there be any grievance or query relating to JEE (Advanced) 2023, the candidate must write to the Organizing Chairperson of JEE (Advanced) 2023 for clarification at the addresses given in [Annexure - V](#). The decision taken on such queries / grievances by the Organizing Chairperson of JEE (Advanced) 2023 shall be final.

34. Hindi Version

This Information Brochure is published in English as well as in Hindi. In the event of doubt or discrepancy, the English version will prevail.

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Annexures

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Annexure-I: SYLLABI

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CHEMISTRY

General topics

Concept of atoms and molecules; Dalton's atomic theory; Mole concept; Chemical formulae; Balanced chemical equations; Calculations (based on mole concept and stoichiometry) involving common oxidation-reduction, neutralisation, and displacement reactions; Concentration in terms of mole fraction, molarity, molality and normality.

States of Matter: Gases and Liquids

Gas laws and ideal gas equation, absolute scale of temperature; Deviation from ideality, van der Waals equation; Kinetic theory of gases, average, root mean square and most probable velocities and their relation with temperature; Law of partial pressures; Diffusion of gases. Intermolecular interactions: types, distance dependence, and their effect on properties; Liquids: vapour pressure, surface tension, viscosity.

Atomic Structure

Bohr model, spectrum of hydrogen atom; Wave-particle duality, de Broglie hypothesis; Uncertainty principle; Qualitative quantum mechanical picture of hydrogen atom: Energies, quantum numbers, wave function and probability density (plots only), shapes of *s*, *p* and *d* orbitals; Aufbau principle; Pauli's exclusion principle and Hund's rule.

Chemical Bonding and Molecular Structure

Orbital overlap and covalent bond; Hybridisation involving *s*, *p* and *d* orbitals only; Molecular orbital energy diagrams for homonuclear diatomic species (up to Ne_2); Hydrogen bond; Polarity in molecules, dipole moment; VSEPR model and shapes of molecules (linear, angular, triangular, square planar, pyramidal, square pyramidal, trigonal bipyramidal, tetrahedral and octahedral).

Chemical Thermodynamics

Intensive and extensive properties, state functions, First law of thermodynamics; Internal energy, work (pressure-volume only) and heat; Enthalpy, heat capacity, standard state, Hess's law; Enthalpy of reaction, fusion and vapourization, and lattice enthalpy; Second law of thermodynamics; Entropy; Gibbs energy; Criteria of equilibrium and spontaneity.

Chemical and Ionic Equilibrium

Law of mass action; Significance of ΔG and ΔG^\ominus in chemical equilibrium; Equilibrium constant (K_p and K_c) and reaction quotient, Le Chatelier's principle (effect of concentration, temperature and pressure); Solubility product and its applications, common ion effect, pH and buffer solutions;

Acids and bases (Brønsted and Lewis concepts); Hydrolysis of salts.

Electrochemistry

Electrochemical cells and cell reactions; Standard electrode potentials; Electrochemical work, Nernst equation; Electrochemical series, emf of galvanic cells; Faraday's laws of electrolysis; Electrolytic conductance, specific, equivalent and molar conductivity, Kohlrausch's law; Batteries: Primary and Secondary, fuel cells; Corrosion.

Chemical Kinetics

Rates of chemical reactions; Order and molecularity of reactions; Rate law, rate constant, half-life; Differential and integrated rate expressions for zero and first order reactions; Temperature dependence of rate constant (Arrhenius equation and activation energy); Catalysis: Homogeneous and heterogeneous, activity and selectivity of solid catalysts, enzyme catalysis and its mechanism.

Solid State

Classification of solids, crystalline state, seven crystal systems (cell parameters $a, b, c, \alpha, \beta, \gamma$), close packed structure of solids (cubic and hexagonal), packing

in fcc, bcc and hcp lattices; Nearest neighbours, ionic radii and radius ratio, point defects.

Solutions

Henry's law; Raoult's law; Ideal solutions; Colligative properties: lowering of vapour pressure, elevation of boiling point, depression of freezing point, and osmotic pressure; van't Hoff factor.

Surface Chemistry

Elementary concepts of adsorption: Physisorption and Chemisorption, Freundlich adsorption isotherm; Colloids: types, methods of preparation and general properties; Elementary ideas of emulsions, surfactants and micelles (only definitions and examples).

Classification of Elements and Periodicity in Properties

Modern periodic law and the present form of periodic table; electronic configuration of elements; periodic trends in atomic radius, ionic radius, ionization enthalpy, electron gain enthalpy, valence, oxidation states, electronegativity, and chemical reactivity.

Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides – ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide- preparation, reactions, use and structure; hydrogen as a fuel.

s-Block Elements

Alkali and alkaline earth metals-reactivity towards air, water, dihydrogen, halogens, acids; their reducing nature including solutions in liquid ammonia; uses of these elements; general characteristics of their oxides, hydroxides, halides, salts of oxoacids; anomalous behaviour of lithium and beryllium; preparation, properties, and uses of compounds of sodium (sodium carbonate, sodium chloride, sodium hydroxide, sodium hydrogen carbonate) and calcium (calcium oxide, calcium hydroxide, calcium carbonate, calcium sulphate).

***p*-Block Elements**

Oxidation state and trends in chemical reactivity of elements of groups 13-17; anomalous properties of boron, carbon, nitrogen, oxygen, and fluorine with respect to other elements in their respective groups.

Group 13: Reactivity towards acids, alkalis, and halogens; preparation, properties, and uses of borax, orthoboric acid, diborane, boron trifluoride, aluminium chloride, and alums; uses of boron and aluminium.

Group 14: Reactivity towards water and halogen; allotropes of carbon and uses of carbon; preparation, properties, and uses of carbon monoxide, carbon dioxide, silicon dioxide, silicones, silicates, zeolites.

Group 15: Reactivity towards hydrogen, oxygen, and halogen; allotropes of phosphorous; preparation, properties, and uses of dinitrogen, ammonia, nitric acid, phosphine, phosphorus trichloride, phosphorus pentachloride; oxides of nitrogen and oxoacids of phosphorus.

Group 16: Reactivity towards hydrogen, oxygen, and halogen; simple oxides; allotropes of sulfur; preparation/manufacture, properties, and uses of dioxygen, ozone, sulfur dioxide, sulfuric acid; oxoacids of sulfur.

Group 17: Reactivity towards hydrogen, oxygen, and metals; preparation/manufacture, properties, and uses of chlorine, hydrogen chloride and interhalogen compounds; oxoacids of halogens, bleaching powder.

Group 18: Chemical properties and uses; compounds of xenon with fluorine and oxygen.

***d*-Block Elements**

Oxidation states and their stability; standard electrode potentials; interstitial compounds; alloys; catalytic properties; applications; preparation, structure, and reactions of oxoanions of chromium and manganese.

***f*-Block Elements**

Lanthanoid and actinoid contractions; oxidation states; general characteristics.

Coordination Compounds

Werner's theory; Nomenclature, *cis-trans* and ionization isomerism, hybridization and geometries (linear, tetrahedral, square planar and octahedral) of mononuclear coordination compounds; Bonding [VBT and CFT (octahedral and tetrahedral fields)]; Magnetic properties (spin-only) and colour of *3d*-series coordination compounds; Ligands and spectrochemical series; Stability; Importance and applications; Metal carbonyls.

Isolation of Metals

Metal ores and their concentration; extraction of crude metal from concentrated ores: thermodynamic (iron, copper, zinc) and electrochemical (aluminium) principles of metallurgy; cyanide process (silver and gold); refining.

Principles of Qualitative Analysis

Groups I to V (only Ag^+ , Hg^{2+} , Cu^{2+} , Pb^{2+} , Fe^{3+} , Cr^{3+} , Al^{3+} , Ca^{2+} , Ba^{2+} , Zn^{2+} , Mn^{2+} and Mg^{2+}); Nitrate, halides (excluding fluoride), carbonate and bicarbonate, sulphate and sulphide.

Environmental Chemistry

Atmospheric pollution; water pollution; soil pollution; industrial waste; strategies to control environmental pollution; green chemistry.

Basic Principles of Organic Chemistry

Hybridisation of carbon; σ and π -bonds; Shapes of simple organic molecules; aromaticity; Structural and geometrical isomerism; Stereoisomers and stereochemical relationship (enantiomers, diastereomers, meso) of compounds containing only up to two asymmetric centres (*R,S* and *E,Z* configurations excluded); Determination of empirical and molecular formulae of simple compounds by combustion method only; IUPAC nomenclature of organic molecules (hydrocarbons, including simple cyclic hydrocarbons and their mono-functional and bi-functional derivatives only); Hydrogen bonding effects; Inductive, Resonance and Hyperconjugative effects; Acidity and basicity of organic compounds; Reactive intermediates produced during homolytic and

heterolytic bond cleavage; Formation, structure and stability of carbocations, carbanions and free radicals.

Alkanes

Homologous series; Physical properties (melting points, boiling points and density) and effect of branching on them; Conformations of ethane and butane (Newman projections only); Preparation from alkyl halides and aliphatic carboxylic acids; Reactions: combustion, halogenation (including allylic and benzylic halogenation) and oxidation.

Alkenes and Alkynes

Physical properties (boiling points, density and dipole moments); Preparation by elimination reactions; Acid catalysed hydration (excluding the stereochemistry of addition and elimination); Metal acetylides; Reactions of alkenes with KMnO_4 and ozone; Reduction of alkenes and alkynes; Electrophilic addition reactions of alkenes with X_2 , HX , HOX , ($\text{X}=\text{halogen}$); Effect of peroxide on addition reactions; cyclic polymerization reaction of alkynes.

Benzene

Structure; Electrophilic substitution reactions: halogenation, nitration, sulphonation, Friedel-Crafts alkylation and acylation; Effect of directing groups (monosubstituted benzene) in these reactions.

Phenols

Physical properties; Preparation, Electrophilic substitution reactions of phenol (halogenation, nitration, sulphonation); Reimer-Tiemann reaction, Kolbe reaction; Esterification; Etherification; Aspirin synthesis; Oxidation and reduction reactions of phenol.

Alkyl Halides

Rearrangement reactions of alkyl carbocation; Grignard reactions; Nucleophilic substitution reactions and their stereochemical aspects.

Alcohols

Physical properties; Reactions: esterification, dehydration (formation of alkenes and ethers); Reactions with: sodium, phosphorus halides, $\text{ZnCl}_2/\text{concentrated HCl}$, thionyl chloride; Conversion of alcohols into aldehydes, ketones and carboxylic acids.

Ethers

Preparation by Williamson's synthesis; C-O bond cleavage reactions.

Aldehydes and Ketones

Preparation of: aldehydes and ketones from acid chlorides and nitriles; aldehydes from esters; benzaldehyde from toluene and benzene; Reactions: oxidation, reduction, oxime and hydrazone formation; Aldol condensation, Cannizzaro reaction; Haloform reaction; Nucleophilic addition reaction with RMgX , NaHSO_3 , HCN, alcohol, amine.

Carboxylic Acids

Physical properties; Preparation: from nitriles, Grignard reagents, hydrolysis of esters and amides; Preparation of benzoic acid from alkylbenzenes; Reactions: reduction, halogenation, formation of esters, acid chlorides and amides.

Amines

Preparation from nitro compounds, nitriles and amides; Reactions: Hoffmann bromamide degradation, Gabriel phthalimide synthesis; Reaction with nitrous acid, Azo coupling reaction of diazonium salts of aromatic amines; Sandmeyer and related reactions of diazonium salts; Carbylamine reaction, Hinsberg test, Alkylation and acylation reactions.

Haloarenes

Reactions: Fittig, Wurtz-Fittig; Nucleophilic aromatic substitution in haloarenes and substituted haloarenes (excluding benzyne mechanism and cine substitution).

Biomolecules

Carbohydrates: Classification; Mono- and di-saccharides (glucose and sucrose); Oxidation; Reduction; Glycoside formation and hydrolysis of disaccharides (sucrose, maltose, lactose); Anomers.

Proteins: Amino acids; Peptide linkage; Structure of peptides (primary and secondary); Types of proteins (fibrous and globular).

Nucleic acids: Chemical composition and structure of DNA and RNA.

Polymers

Types of polymerization (addition, condensation); Homo and copolymers; Natural rubber; Cellulose; Nylon; Teflon; Bakelite; PVC; Bio-degradable polymers; Applications of polymers.

Chemistry in Everyday Life

Drug-target interaction; Therapeutic action, and examples (excluding structures), of antacids, antihistamines, tranquilizers, analgesics, antimicrobials, and antifertility drugs; Artificial sweeteners (names only); Soaps, detergents, and cleansing action.

Practical Organic Chemistry

Detection of elements (N, S, halogens); Detection and identification of the following functional groups: hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketone), carboxyl, amino and nitro.

MATHEMATICS

Sets, Relations and Functions

Sets and their representations, different kinds of sets (empty, finite and infinite), algebra of sets, intersection, complement, difference and symmetric difference of sets and their algebraic properties, De-Morgan's laws on union, intersection, difference (for finite number of sets) and practical problems based on them.

Cartesian product of finite sets, ordered pair, relations, domain and codomain of relations, equivalence relation.

Function as a special case of relation, functions as mappings, domain, codomain, range of functions, invertible functions, even and odd functions, into, onto and one-to-one functions, special functions (polynomial, trigonometric, exponential, logarithmic, power, absolute value, greatest integer, etc.), sum, difference, product and composition of functions.

Algebra

Algebra of complex numbers, addition, multiplication, conjugation, polar representation, properties of modulus and principal argument, triangle inequality, cube roots of unity, geometric interpretations.

Statement of fundamental theorem of algebra, Quadratic equations with real coefficients, relations between roots and coefficients, formation of quadratic equations with given roots, symmetric functions of roots.

Arithmetic and geometric progressions, arithmetic and geometric means, sums of finite arithmetic and geometric progressions, infinite geometric series, sum of the first n natural numbers, sums of squares and cubes of the first n natural numbers.

Logarithms and their properties, permutations and combinations, binomial theorem for a positive integral index, properties of binomial coefficients.

Matrices

Matrices as a rectangular array of real numbers, equality of matrices, addition, multiplication by a scalar and product of matrices, transpose of a matrix, elementary row and column transformations, determinant of a square matrix of order up to three, adjoint of a matrix, inverse of a square matrix of order up to three, properties of these matrix operations, diagonal, symmetric and skew-symmetric matrices and their properties, solutions of simultaneous linear equations in two or three variables.

Probability and Statistics

Random experiment, sample space, different types of events (impossible, simple, compound), addition and multiplication rules of probability, conditional probability, independence of events, total probability, Bayes Theorem, computation of probability of events using permutations and combinations.

Measure of central tendency and dispersion, mean, median, mode, mean deviation, standard deviation and variance of grouped and ungrouped data, analysis of the frequency distribution with same mean but different variance, random variable, mean and variance of the random variable.

Trigonometry

Trigonometric functions, their periodicity and graphs, addition and subtraction formulae, formulae involving multiple and sub-multiple angles, general solution of trigonometric equations.

Inverse trigonometric functions (principal value only) and their elementary properties.

Analytical Geometry

Two dimensions: Cartesian coordinates, distance between two points, section formulae, shift of origin.

Equation of a straight line in various forms, angle between two lines, distance of a point from a line; Lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines, concurrency of lines; Centroid, orthocentre, incentre and circumcentre of a triangle.

Equation of a circle in various forms, equations of tangent, normal and chord. Parametric equations of a circle, intersection of a circle with a straight line or a circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line.

Equations of a parabola, ellipse and hyperbola in standard form, their foci, directrices and eccentricity, parametric equations, equations of tangent and normal.

Locus problems.

Three dimensions: Distance between two points, direction cosines and direction ratios, equation of a straight line in space, skew lines, shortest distance between two lines, equation of a plane, distance of a point from a plane, angle between two lines, angle between two planes, angle between a line and the plane, coplanar lines.

Differential Calculus

Limit of a function at a real number, continuity of a function, limit and continuity of the sum, difference, product and quotient of two functions, L'Hospital rule of evaluation of limits of functions.

Continuity of composite functions, intermediate value property of continuous functions.

Derivative of a function, derivative of the sum, difference, product and quotient of two functions, chain rule, derivatives of polynomial, rational, trigonometric, inverse trigonometric, exponential and logarithmic functions.

Tangents and normals, increasing and decreasing functions, derivatives of order two, maximum and minimum values of a function, Rolle's theorem and Lagrange's mean value theorem, geometric interpretation of the two theorems, derivatives up to order two of implicit functions, geometric interpretation of derivatives.

Integral Calculus

Integration as the inverse process of differentiation, indefinite integrals of standard functions, definite integrals as the limit of sums, definite integral and their properties, fundamental theorem of integral calculus.

Integration by parts, integration by the methods of substitution and partial fractions, application of definite integrals to the determination of areas bounded by simple curves. Formation of ordinary differential equations, solution of homogeneous differential equations of first order and first degree, separation of variables method, linear first order differential equations.

Vectors

Addition of vectors, scalar multiplication, dot and cross products, scalar and vector triple products, and their geometrical interpretations.

PHYSICS

General

General Units and dimensions, dimensional analysis; least count, significant figures; Methods of measurement and error analysis for physical quantities pertaining to the following experiments: Experiments based on using Vernier calipers and screw gauge (micrometer), Determination of g using simple pendulum, Young's modulus - elasticity of the material, Surface tension of water by capillary rise and effect of detergents. Specific heat of a liquid using calorimeter, focal length of a concave mirror and a convex lens using u - v method, Speed of sound using resonance column, Verification of Ohm's law using voltmeter and ammeter, and specific resistance of the material of a wire using meter bridge and post office box.

Mechanics

Kinematics in one and two dimensions (Cartesian coordinates only), projectiles; Uniform circular motion; Relative velocity.

Newton's laws of motion; Inertial and uniformly accelerated frames of reference; Static and dynamic friction; Kinetic and potential energy; Work and power; Conservation of linear momentum and mechanical energy.

Systems of particles; Centre of mass and its motion; Impulse; Elastic and inelastic collisions.

Rigid body, moment of inertia, parallel and perpendicular axes theorems, moment of inertia of uniform bodies with simple geometrical shapes; Angular momentum; Torque; Conservation of angular momentum; Dynamics of rigid bodies with fixed axis of rotation; Rolling without slipping of rings, cylinders and spheres; Equilibrium of rigid bodies; Collision of point masses with rigid bodies. Forced and damped oscillation (in one dimension), resonance.

Linear and angular simple harmonic motions.

Hooke's law, Young's modulus.

Law of gravitation; Gravitational potential and field; Acceleration due to gravity; Kepler's law, Geostationary orbits, Motion of planets and satellites in circular orbits; Escape velocity.

Pressure in a fluid; Pascal's law; Buoyancy; Surface energy and surface tension, angle of contact, drops, bubbles and capillary rise. Viscosity (Poiseuille's equation excluded), Modulus of rigidity and bulk modulus in mechanics. Stoke's law; Terminal velocity, Streamline flow, equation of continuity, Bernoulli's theorem and its applications. Wave motion (plane waves only), longitudinal and transverse waves, superposition of waves; Progressive and stationary waves; Vibration of strings and air columns; Resonance; Beats; Speed of sound in gases; Doppler effect (in sound).

Thermal Physics

Thermal expansion of solids, liquids and gases; Calorimetry, latent heat; Heat conduction in one dimension; Elementary concepts of convection and radiation; Newton's law of cooling; Ideal gas laws; Specific heats (C_v and C_p for monoatomic and diatomic gases); Isothermal and adiabatic processes, bulk modulus of gases; Equivalence of heat and work; First law of thermodynamics and its applications (only for ideal gases); Second law of thermodynamics, reversible and irreversible processes, Carnot engine and its efficiency; Blackbody radiation: absorptive and emissive powers; Kirchhoff's law; Wien's displacement law, Stefan's law.

Electricity and Magnetism

Coulomb's law; Electric field and potential; Electrical potential energy of a system of point charges and of electrical dipoles in a uniform electrostatic field; Electric field lines; Flux of electric field; Gauss's law and its application in simple cases, such as, to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell.

Capacitance; Parallel plate capacitor with and without dielectrics; Capacitors in series and parallel; Energy stored in a capacitor.

Electric current; Ohm's law; Series and parallel arrangements of resistances and cells; Kirchhoff's laws and simple applications; Heating effect of current.

Biot–Savart's law and Ampere's law; Magnetic field near a current-carrying straight wire, along the axis of a circular coil and inside a long straight solenoid; Force on a moving charge and on a current-carrying wire in a uniform magnetic field.

Magnetic moment of a current loop; Effect of a uniform magnetic field on a current loop; Moving coil galvanometer, voltmeter, ammeter and their conversions.

Electromagnetic induction: Faraday's law, Lenz's law; Self and mutual inductance; RC, LR, LC and LCR (in series) circuits with d.c. and a.c. sources.

Electromagnetic Waves

Electromagnetic waves and their characteristics. Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays) including elementary facts about their uses.

Optics

Rectilinear propagation of light; Reflection and refraction at plane and spherical surfaces; Total internal reflection; Deviation and dispersion of light by a prism; Thin lenses; Combinations of mirrors and thin lenses; Magnification.

Wave nature of light: Huygen's principle, interference limited to Young's double slit experiment.

Diffraction due to a single slit. Polarization of light, plane polarized light; Brewster's law, Polaroids.

Modern Physics

Atomic nucleus; α , β and γ radiations; Law of radioactive decay; Decay constant; Half-life and mean life; Binding energy and its calculation; Fission and fusion processes; Energy calculation in these processes.

Photoelectric effect; Bohr's theory of hydrogen-like atoms; Characteristic and continuous X-rays, Moseley's law; de Broglie wavelength of matter waves.

ARCHITECTURE APTITUDE TEST

Freehand drawing

This would comprise of simple drawing depicting the total object in its right form and proportion, surface texture, relative location and details of its component parts in appropriate scale. Common domestic or day-to-day life usable objects like furniture, equipment, etc., from memory.

Geometrical drawing

Exercises in geometrical drawing containing lines, angles, triangles, quadrilaterals, polygons, circles, etc. Study of plan (top view), elevation (front or side views) of simple solid objects like prisms, cones, cylinders, cubes, splayed surface holders, etc.

Three-dimensional perception

Understanding and appreciation of three-dimensional forms with building elements, colour, volume and orientation. Visualization through structuring objects in memory.

Imagination and aesthetic sensitivity

Composition exercise with given elements. Context mapping. Creativity check through innovative uncommon test with familiar objects. Sense of colour grouping or application.

Architectural awareness

General interest and awareness of famous architectural creations – both national and international, places and personalities (architects, designers, etc.) in the related domain

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Annexure-II: CERTIFICATE FORMATS

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Government of
(Name & Address of the authority issuing the certificate)

INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No. _____

Date _____

1. This is to certify that Shri/Smt./Kumari _____ son/daughter/wife of _____ permanent resident of _____, Village/Street _____ Post Office _____ District _____ in the State/Union Territory _____ Pin Code _____ whose photograph in attested below belongs to Economically Weaker Sections, since the gross annual income* of his/her “family”** is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year 2022-2023. His/her family does not own or possess any of the following assets***:

- I. 5 acres of agricultural land and above;
- II. Residential flat of 1000 sq. ft. and above;
- III. Residential plot of 100 sq. yards and above in notified municipalities;
- IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

2. Shri/Smt./Kumari _____ belongs to the _____ caste which is not recognized as a Schedule Caste, Schedule Tribe and Other Backward Classes (Central List).

Signature with seal of Officer _____
Name _____
Designation _____

Recent Passport size attested photograph of the applicant

The income and assets of the families as mentioned would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs.

* **Note1:** Income covered all sources i.e., salary, agricultural, business, profession, etc.
** **Note2:** The term “Family” for this purpose includes the person, who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.
*** **Note3:** The property held by a “Family” in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

OBC-NCL Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES (NCL)* APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA

This is to certify that Shri/Smt./Kum** _____ Son/
Daughter** of Shri/Smt.** _____ of Village/
Town** _____ District/Division** _____ in
the State/Union Territory _____ belongs to the
_____ community that is recognized as a backward class
under Government of India***, Ministry of Social Justice and Empowerment's Resolution No.
_____ dated _____****

Shri/Smt./Kum. _____ and/or _____
his/her family ordinarily reside(s) in the _____ District/Division
of the _____ State/Union Territory. This is also to certify that
he/she does NOT belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the
Schedule to the Government of India, Department of Personnel & Training O.M. No.
36012/22/93- Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004
Estt.(Res.) dated 09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res.) dated
14/10/2008, again further modified vide OM No.36036/2/2013-Estt (Res) dtd. 30/05/2014, and
again further modified vide OM No. 36033/1/2013-Estt (Res) dtd. 13/09/2017.

District Magistrate /
Deputy Commissioner /
Any other Competent Authority

Dated:

Seal

* Visit <http://www.ncbc.nic.in> for latest guidelines and updates on the Central List of State-wise OBCs.

** Please delete the word(s) which are not applicable.

*** As listed in the Annexure (for FORM-OBC-NCL)

**** The authority issuing the certificate needs to mention the details of Resolution of Government of India, in which the caste of the candidate is mentioned as OBC.

NOTE:

- (a) The term 'Ordinarily resides' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
 - (i) District Magistrate/ Additional Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ Ist Class Stipendiary Magistrate/ Sub-Divisional magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar' and
 - (iv) Sub-Divisional Officer of the area where the candidate and/or his family resides
 - (v) Certificate issued by any other authority will be rejected

ANNEXURE for FORM-OBC-NCL

Sl. No.	Resolution No.	Date of Notification
1	No.12011/68/93-BCC(C)	13.09.1993
2	No.12011/9/94-BCC	19.10.1994
3	No.12011/7/95-BCC	24.05.1995
4	No.12011/96/94-BCC	09.03.1996
5	No.12011/44/96-BCC	11.12.1996
6	No.12011/13/97-BCC	03.12.1997
7	No.12011/99/94-BCC	11.12.1997
8	No.12011/68/98-BCC	27.10.1999
9	No.12011/88/98-BCC	06.12.1999
10	No.12011/36/99-BCC	04.04.2000
11	No.12011/44/99-BCC	21.09.2000
12	No.12015/9/2000-BCC	06.09.2001
13	No.12011/1/2001-BCC	19.06.2003
14	No.12011/4/2002-BCC	13.01.2004
15	No.12011/9/2004-BCC	16.01.2006
16	No.12011/14/2004-BCC	12.03.2007
17	No.12011/16/2007-BCC	12.10.2007
18	No.12019/6/2005-BCC	30.07.2010
19	No. 12015/2/2007-BCC	18.08.2010
20	No.12015/15/2008-BCC	16.06.2011
21	No.12015/13/2010-BC-II	08.12.2011
22	No.12015/5/2011-BC-II	17.02.2014
23	No. 12011/04/2014-BC-II	14.01.2015
24	No. 12011/7/2014-BC-II	23.01.2015
25	No. 12011/1/2015-BC-II	27.05.2015
26	No. 12015/05/2011-BC-II	14.07.2015
27	No. 12011/06/2014-BC-II	09.09.2015
28	No. 12011/13/2016-BC-II	25.05.2016
29	No. 12011/14/2016-BC-II	13.06.2016
30	No. 12011/15/2016-BC-II	30.06.2016
31	No. 12011/4/2014-BC-II	11.08.2016
32	No. 12011/6/2014-BC-II	06.12.2016
33	No. 12011/13/2016-BC-II	22.12.2016
34	No. 20012/1/2017-BC-II	18.01.2017
35	No. 12011/7/2017-BC-II	28.07.2017
36	No. 36033/1/2013-Estt. (Res.)	13.09.2017
37	No. 36033/2/2018-Estt. (Res.)	08.06.2018

SC/ST Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY SCHEDULED CASTES (SC) AND SCHEDULED TRIBES (ST) CANDIDATES

1. This is to certify that Shri/ Shrimati/ Kumari* _____ son/daughter* of _____ of Village/Town* _____ District/Division* _____ of State/Union Territory* _____ belongs to the _____ Scheduled Caste / Scheduled Tribe* under :-

- * The Constitution (Scheduled Castes) Order, 1950
- * The Constitution (Scheduled Tribes) Order, 1950
- * **The Constitution (Scheduled Castes) (Union Territories) Order, 1951**
- * The Constitution (Scheduled Tribes) (Union Territories) Order, 1951

[As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification Order) 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

- * The Constitution (Jammu and Kashmir) Scheduled Castes Order, 1956;
- * The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976;
- * The Constitution (Dadara and Nagar Haveli) Scheduled Castes Order, 1962;
- * The Constitution (Dadara and Nagar Haveli) Scheduled Tribes Order, 1962;
- * The Constitution (Pondicherry) Scheduled Castes Order, 1964;
- * The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;
- * The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968;
- * The Constitution (Goa, Daman and Diu) Scheduled Tribes Order, 1968;
- * The Constitution (Nagaland) Scheduled Tribes Order, 1970;
- * The Constitution (Sikkim) Scheduled Castes Order, 1978;
- * The Constitution (Sikkim) Scheduled Tribes Order, 1978;
- * The Constitution (Jammu and Kashmir) Scheduled Tribes Order, 1989;
- * The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;
- * The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;
- * The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991.

2. # This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes* Certificate issued to Shri /Shrimati* _____ father/mother* of Shri /Shrimati /Kumari* _____ of Village/Town* _____ in District/Division* _____ of the State State/Union Territory* _____ who belong to the Caste /Tribe* which is recognised as a Scheduled Caste / Scheduled Tribe* in the State / Union Territory* _____ issued by the _____ dated _____.

3. Shri/ Shrimati/ Kumari * _____ and / or* his / her* family ordinarily reside(s)** in Village/Town* _____ of _____ District/Division* of the State Union Territory* of _____.

Signature: _____
 Designation _____
 (With seal of the Office)

Place: _____ State/Union Territory* _____

Date: _____

- * Please delete the word(s) which are not applicable.
- # Applicable in the case of SC/ST Persons who have migrated from another State/UT.

IMPORTANT NOTES

The term “ordinarily reside(s)”** used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950. Officers competent to issue Caste/Tribe certificates:

1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshadweep Island).
6. Certificate issued by any other authority will be rejected.

Form-II

Disability Certificate

(In cases of amputation or complete permanent paralysis of limbs and in cases of blindness)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

(See rule 4)

Recent PP size attested photograph (showing face only) of the person with disability

Certificate No. _____

Date: _____

This is to certify that I have carefully examined

Shri/Smt./Kum. _____

_____ son/wife/daughter of Shri _____ Date of

Birth (DD/MM/YY) _____ Age _____ years, male/female

_____ Registration No. _____ permanent resident of House No.

_____ Ward/Village/ Street _____

Post Office _____ District _____ State

_____, whose photograph is affixed above, and am satisfied that:

1. he/she is a case of:
 - a. locomotor disability
 - b. blindness
 (Please tick as applicable)
2. the diagnosis in his/her case is _____
3. He/ She has _____% (in figure) _____ percent (in words) permanent physical impairment/blindness in relation to his/her _____ (part of body) as per guidelines (to be specified).
4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Signature and Seal of Authorised Signatory of notified Medical Authority)

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Form-III
Disability Certificate
(In cases of multiple disabilities)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE
CERTIFICATE)
(See rule 4)

Recent PP size
attested
photograph
(showing face
only) of the person
with disability

Certificate No. _____

Date: _____

This is to certify that I have carefully examined

Shri/Smt./Kum. _____ son/ wife/daughter of

Shri _____

Date of Birth (DD/MM/YY) _____ Age _____ years,

male/female _____ Registration No. _____

permanent resident of House No. _____ Ward/Village/Street

_____ Post Office _____

District _____ State _____

_____, whose photograph is affixed above, and are
satisfied that:

1. He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

@ - e.g., Left/Right/both arms/legs

- e.g., Single eye/both eyes

£ - e.g., Left/Right/both ears

2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

In figures: _____ percent

In words: _____ percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:

(i) not necessary

Or

(ii) is recommended/after _____ years _____ months, and therefore this certificate shall be valid till (DD/MM/YY) _____

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing certificate

6. Signature and seal of the Medical Authority:

Name and Seal of Member	Name of Seal of Member	Name and Seal of the Chairperson

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Form-IV
Disability Certificate
(In cases other than those mentioned in Forms II and III)
**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE
CERTIFICATE)**
(See rule 4)

Recent PP size
attested photograph
(showing face only)
of the person with
disability

Certificate No. _____ Date: _____

This is to certify that I have carefully examined

Shri/Smt./Kum. _____ son/ wife/daughter of

Shri _____

Date of Birth (DD/MM/YY) _____ Age _____ years,

male/female _____ Registration No. _____

permanent resident of House No. _____ Ward/Village/Street

_____ Post Office _____

District _____ State _____

_____, whose photograph is affixed above, and am satisfied that he/she is a case of disability.

1. His/her extent of percentage of physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in the table below:

S. No.	Disability	Diagnosis	Permanent physical impairment / mental disability (in %)
1	Locomotor disability		
2	Visual Impairment (blindness / low vision)		
3	Hearing impairment		
4	Speech and language disability		
5	Intellectual disability		
6	Mental-illness		
7	Disability caused due to chronic neurological conditions and / or blood disorders		

(Please strike out the disabilities which are not applicable.)

2. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is:

a. not necessary

Or

b. is recommended/after _____ years _____ months, and therefore this certificate shall be valid till (DD/MM/YY) _____

4. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)
(Name and Seal)

Countersigned

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Note: In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District. Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31st December, 1996.

FORM-DYSLEXIC-1

FORMAT OF MEDICAL CERTIFICATE / REPORT TO BE PRODUCED BY DYSLEXIC CANDIDATE

{To be obtained from any Government or Government approved Learning Disability Clinic/Neurodevelopmental Centre/Dyslexia Association }

Date:

PSYCHO-EDUCATION EVALUATION REPORT

Name of the candidate:

Date of Birth:

Candidate

Registration in the Clinic/Centre/Dyslexia Assn. (date / number):

Name of the Father/Mother/Guardian:

Name/address and Regn. No. :
of the Dyslexia Association

Physical & Neurologic Assessment: []

Psychological Assessment: []

WISC Verbal IQ:
 Performance IQ:
 Full Scale IQ:

Interpretation: []

Educational Assessment: []

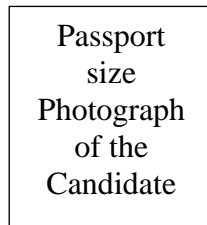
Certified that:

1. The condition of handicap is: MILD / MODERATE / SEVERE (tick whichever is applicable)*.
2. The disability is **PERMANENT** in nature and **DETAILED REPORTS OF DYSLEXIA ASSESSMENT ARE ATTACHED WITH THIS FORM (IN ORIGINAL).**

*Learning Disability is a permanent developmental disorder. Currently there are no standard approved methods to quantify the disorder. However, the method of diagnosis is based on significant impairment in academic achievement. To avail the benefit of relaxed norm under PwD category, the candidate must come under SEVERE category.

Signature and Name (in CAPITAL LETTERS) of the certifying official:

Seal:



FORM-DYSLEXIC-2

***CERTIFICATE TO BE PRODUCED BY DYSLEXIC CANDIDATE
FROM THE PRINCIPAL OF THE SCHOOL/COLLEGE LAST
ATTENDED**

Testimonial

Date:

Name of the candidate:

Date of Birth:

Name and Address of the School/College:

Passport size Photograph of the Candidate

Certified that Shri/Smt/Kum _____
son/daughter of _____ of
_____ village/town passed his/her Class XII from
this school and as per records, availed concession under dyslexic category.

Signature with seal:

** A candidate passing Class XII or equivalent through open school system or in private mode may submit the certificate to this effect from the competent authority in the board certifying the concessions availed under dyslexia.*

**FORM - DISABILITY AND
HAVING DIFFICULTY IN WRITING**

CERTIFICATE FOR PERSON WITH SPECIFIED DISABILITY COVERED UNDER THE DEFINITION OF SECTION 2 (S) OF THE RPWD ACT, 2016 BUT NOT COVERED UNDER THE DEFINITION OF SECTION 2(R) OF THE SAID ACT, i.e. PERSONS HAVING LESS THAN 40% DISABILITY AND HAVING DIFFICULTY IN WRITING

This is to certify that, we have examined Mr/Ms/Mrs. _____ (name of the candidate), S/o /D/o _____, a resident of _____ (Vill/PO/PS/District/State), aged _____ yrs, a person with _____ (nature of disability/condition), and to state that he/she has limitation which hampers his/her writing capability owing to his/her above condition. He/she requires support of scribe for writing the examination.

2. The above candidate uses aids and assistive device such as prosthetics & orthotics, hearing aid (name to be specified) which is/are essential for the candidate to appear at the examination with the assistance of scribe.

3. This certificate is issued only for the purpose of appearing in written examinations conducted by recruitment agencies as well as academic institutions and is valid up to _____ (it is valid for maximum period of six months or less as may be certified by the medical authority)

Signature of medical authority

(Signature & Name)	(Signature & Name)	(Signature & Name)	(Signature & Name)	(Signature & Name)
Orthopedic/ PMR specialist	Clinical Psychologist / Rehabilitation Psychologist / Psychiatrist / Special Educator	Neurologist (if available)	Occupational Therapist (if available)	Other Expert, as nominated by the Chairperson (if any)
(Signature & Name)				
Chief Medical Officer / Civil Surgeon / Chief District Medical Officer Chairperson				

Name of Government Hospital / Health care Centre with Seal

Place:

Date:

PROFORMA
EDUCATION SCHOLARSHIP-ENTITLEMENT CARD
(To children of Armed Forces personnel killed/disabled/missing in wars/CI operations)

The holder of this card Shri/Kum _____
born on _____ is the son/daughter of Shri/Smt _____
_____, Rank _____
_____ of Unit _____ Service
_____ Service No. _____
killed in action/permanently disabled/missing on _____
during _____ (Name of war/operation).

Name of the Guardian:

Address:

The holder is eligible for all educational concessions sanctioned by Central Government for children of Armed Forces personnel killed, missing or permanently disabled in wars/CI Operations.

Signature (with date) of the authorized Officer

Office Address:

(Respective record offices of Armed Forces Personnel)

FORM-SCRIBE (AMANUENSIS)-I

FORMAT OF REQUEST LETTER FOR SCRIBE (AMANUENSIS) FOR PwD CANDIDATES

From

Date:

Name of the candidate: _____

Address: _____

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

The Chairperson, JEE (Advanced) 2023
Indian Institute of Technology, Bombay/ Delhi/ Guwahati/ Kanpur/ Kharagpur/
Hyderabad/ Roorkee (Tick Appropriate Zone)

Dear Sir,

Subject: Requirement of SCRIBE (AMANUENSIS)

I am a PwD candidate (visually impaired/ dyslexic (severe)/ disability in the upper limbs or loss of fingers). I would like to use the service of a scribe (AMANUENSIS) for writing JEE (Advanced) 2023. Kindly do the needful.

I have read and understood Clauses 9, 14 and 15 of the Information Brochure. I understand that if it is subsequently discovered at any stage that I have used the services of a scribe, but do not possess the extent of disability that warrants the use of a scribe, I shall be excluded from the process of evaluation, ranking and admission and that in case I have already been admitted to any IIT, my admission will be cancelled.

Thanking you,

Signature of the candidate

Signature of the Parent/Guardian

(Name of the Parent/Guardian)

Enclosed: Copy of Disability Certificate

FORM-SCRIBE (AMANUENSIS)-II

**FORMAT OF REQUEST LETTER FOR SCRIBE (AMANUENSIS) FOR
PERSONS WITH LESS THAN 40% DISABILITY AND HAVING DIFFICULTY
IN WRITING**

From

Date:

Name of the candidate: _____

Address: _____

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

The Chairperson, JEE (Advanced) 2023
Indian Institute of Technology, Bombay/ Delhi/ Guwahati/ Kanpur/ Kharagpur/
Hyderabad/ Roorkee (Tick Appropriate Zone)

Dear Sir,

Subject: Requirement of SCRIBE (AMANUENSIS)

I am a person with less than 40% disability and having difficulty in writing. I would like to use the service of a scribe (AMANUENSIS) for writing JEE (Advanced) 2023. Kindly do the needful.

I have read and understood Clauses 9, 14 and 15 of the Information Brochure. I understand that if it is subsequently discovered at any stage that I have used the services of a scribe, but do not have any difficulty in writing that warrants the use of a scribe, I shall be excluded from the process of evaluation, ranking and admission and that in case I have already been admitted to any IIT, my admission will be cancelled.

Thanking you,

Signature of the candidate

Signature of the Parent/Guardian

(Name of the Parent/Guardian)

Enclosed: Copy of Disability Certificate

FORM-COMPENSATORY TIME-I

**FORMAT OF LETTER FOR PwD CANDIDATES TO OPT FOR
COMPENSATORY TIME**

From _____ Date: _____
Name of the candidate: _____

Address: _____

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

The Chairperson, JEE (Advanced) 2023
Indian Institute of Technology, Bombay/ Delhi/ Guwahati/ Kanpur/ Kharagpur/
Hyderabad/ Roorkee (Tick Appropriate Zone)

Dear Sir,

Subject: Requirement of Compensatory Time

I am a PwD candidate and would like to avail compensatory time of one hour for each paper (i.e. Paper 1 and Paper 2) of JEE (Advanced) 2023.

I have read and understood Clauses 9, 14 and 15 of the Information Brochure. I understand that if it is subsequently discovered at any stage that I have availed of compensatory time, but do not possess the extent of disability that warrants the same, I shall be excluded from the process of evaluation, ranking and admission and that in case I have already been admitted to any IIT, my admission will be cancelled.

Thanking you,

Signature of the candidate

Signature of the Parent/Guardian

(Name of the Parent/Guardian)

Enclosed: Copy of Disability Certificate

FORM-COMPENSATORY TIME-II

**FORMAT OF LETTER FOR PERSONS WITH LESS THAN 40% DISABILITY
AND HAVING DIFFICULTY IN WRITING TO OPT FOR COMPENSATORY
TIME**

From

Date:

Name of the candidate: _____

Address: _____

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

The Chairperson, JEE (Advanced) 2023
Indian Institute of Technology, Bombay/ Delhi/ Guwahati/ Kanpur/ Kharagpur/
Hyderabad/ Roorkee (Tick Appropriate Zone)

Dear Sir,

Subject: Requirement of Compensatory Time

I am a person with less than 40% disability and having difficulty in writing and would like to avail compensatory time of one hour for each paper (i.e. Paper 1 and Paper 2) of JEE (Advanced) 2023.

I have read and understood Clauses 9, 14 and 15 of the Information Brochure. I understand that if it is subsequently discovered at any stage that I have availed of compensatory time, but do not have any difficulty in writing that warrants the same, I shall be excluded from the process of evaluation, ranking and admission and that in case I have already been admitted to any IIT, my admission will be cancelled.

Thanking you,

Signature of the candidate

Signature of the Parent/Guardian

(Name of the Parent/Guardian)

Enclosed: Copy of Disability Certificate

**DECLARATION BY THE CANDIDATE IN LIEU OF OBC-NCL
CERTIFICATE**

Name of the candidate: _____

Address: _____

Passport
size
Photograph
of the
Candidate

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

I understand that as per the new guideline from the Ministry of Personnel, Public Grievances and Pensions, GoI, I am required to submit OBC-NCL certificate issued on or after April 1, 2023.

Since I have not been able to collect the said certificate on time, I may kindly be allowed to write JEE (Advanced) 2023 provisionally. I hereby declare that I wrote JEE (Main) 2023 as OBC-NCL candidate and that I will upload a fresh certificate (issued on or after April 1, 2023) at the time of reporting after seat allocation.

I understand that inability to upload the same by the given date and time will lead to the withdrawal of OBC-NCL benefit. I also understand that, if qualified, my category will be adjusted accordingly in the Common Rank List.

Signature of Father/Mother

Name:

Date:

Signature of Applicant

Date:

DECLARATION BY THE CANDIDATE IN LIEU OF GEN-EWS CERTIFICATE

Name of the candidate: _____

Address: _____

Passport
size
Photograph
of the
Candidate

Application Number of JEE (Main) 2023:

Mobile No: _____ Email: _____

I understand that as per the new guideline from the Ministry of Personnel, Public Grievances and Pensions, GoI, I am required to submit GEN-EWS certificate issued on or after April 1, 2023.

Since I have not been able to collect the said certificate on time, I may kindly be allowed to write JEE (Advanced) 2023 provisionally. I hereby declare that I wrote JEE (Main) 2023 as GEN-EWS candidate and that I will upload a fresh certificate (issued on or after April 1, 2023) at the time of reporting after seat allocation.

I understand that inability to upload the same by the given date and time will lead to the withdrawal of GEN-EWS benefit. I also understand that, if qualified, my category will be adjusted accordingly in the Common Rank List.

Signature of Father/Mother

Name:

Date:

Signature of Applicant

Date:

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Annexure-III:

COURSES OFFERED IN THE ACADEMIC YEAR 2022-23

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Courses Offered in the Academic Year 2022-2023

S. No.	Course Name	IITs																							
		BBS	B	Mandi	D	I	KGP	H	J	K	M	GN	P	R	ISM	RPR	BHU	G	BH	GOA	PKD	T	JM	Dh	
	B. Tech. (4 Years)																								
1	Aerospace Engineering		✓				✓			✓	✓														
2	Agricultural and Food Engineering						✓																		
3	Artificial Intelligence								✓																
4	Artificial Intelligence and Data Science									✓						✓									
5	Bio Engineering									✓															
6	Biological Sciences and Bioengineering										✓														
7	Biomedical Engineering								✓																
8	Biosciences and Bioengineering															✓			✓						
9	Biotechnology and Biochemical Engineering				✓		✓																		
10	Biotechnology & Bioinformatics								✓																
11	Ceramic Engineering																	✓							
12	Chemical Engineering		✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	Chemical and Biochemical Engineering																								✓
14	Chemical Science and Technology																		✓						
15	Civil and Infrastructure Engineering									✓															✓
16	Civil Engineering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	Computational Engineering								✓																
18	Computer Science and Engineering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	Data Science and Artificial Intelligence															✓			✓	✓					
20	Data Science and Engineering			✓																		✓			
21	Electrical and Electronics Engineering														✓										
22	Electrical Engineering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	Electrical Engineering (IC Design and Technology)								✓																

Annexure-IV: IMPORTANT DATES

Sl. No.	Activity	Day, Date and Time (IST)
1	JEE (Main) 2023 [Computer Based Tests by NTA]	JEE (Main) website
2	Results of JEE (Main) 2023 by NTA	JEE (Main) website
3	Online Registration for JEE (Advanced) 2023	Sunday, April 30, 2023 (10:00 IST) to Thursday, May 04, 2023 (17:00 IST)
4	Last date for fee payment of registered candidates	Friday, May 05, 2023 (17:00 IST)
5	Admit Card available for downloading	Monday, May 29, 2023 (10:00 IST) to Sunday, June 04, 2023 (14:30 IST)
6	Choosing of scribe by PwD candidates / candidates with less than 40% disability and having difficulty in writing	Saturday, June 03, 2023
7	JEE (Advanced) 2023 Examination	Sunday, June 04, 2023 Paper 1: 09:00-12:00 IST Paper 2: 14:30-17:30 IST
8	Copy of candidate responses to be available on the JEE (Advanced) 2023 website	Friday, June 09, 2023 (17:00 IST)
9	Online display of provisional answer keys	Sunday, June 11, 2023 (10:00 IST)
10	Feedback and comments on provisional answer keys from the candidates	Sunday, June 11, 2023 (10:00 IST) to Monday, June 12, 2023 (17:00 IST)
11	Online declaration of final answer key and results of JEE (Advanced) 2023	Sunday, June 18, 2023 (10:00 IST)
12	Online registration for Architecture Aptitude Test (AAT) 2023	Sunday, June 18, 2023 (10:00 IST) to Monday, June 19, 2023 (17:00 IST)
13	Tentative Start of Joint Seat Allocation (JoSAA) 2023 Process	Monday, June 19, 2023 (17:00 IST)
14	Architecture Aptitude Test (AAT) 2023	Wednesday, June 21, 2023 (09:00 IST to 12:00 IST)
15	Declaration of results of AAT 2023	Sunday, June 25, 2023 (17:00 IST)

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Annexure-V: CONTACT DETAILS OF ZONE-WISE IITS

Zone wise Institutes	Address for Correspondence	Phone Number and Email
South IIT Hyderabad* IIT Madras IIT Palakkad IIT Tirupati	Chairperson JEE (Advanced) 2023 IIT Hyderabad Telangana 502 285	Phone: +91 40 2301 6802 E-mail: office.jee@iith.ac.in
West IIT Bombay* IIT Gandhinagar IIT Goa IIT Dharwad	Chairperson JEE (Advanced) 2023 IIT Bombay, Powai Mumbai – 400076	Phone: +91 22 25769093 +91 22 25764063 E-mail: jeeadv2022@iitb.ac.in
North-Central IIT Delhi* IIT Jodhpur IIT Jammu	Chairperson, JEE (Advanced) 2023 IIT Delhi, Hauz Khas New Delhi – 110016	Phone: +91 11 26591785 +91 11 26591798 +91 11 26597099 E-mail: jeeadv@admin.iitd.ac.in
North-East IIT Guwahati*# IIT Patna	Chairperson JEE (Advanced) 2023 IIT Guwahati Guwahati – 781039	Phone: +91 361 2692795 E-mail: jeeadv2023@iitg.ac.in
Central IIT Kanpur* IIT Indore IIT (BHU) Varanasi	Chairperson JEE (Advanced) 2023 IIT Kanpur Kanpur – 208 016	Phone: +91 512 2597325 E-mail: jeeadv@iitk.ac.in
East IIT Kharagpur* IIT Bhubaneswar IIT (ISM) Dhanbad IIT Bhilai	Chairperson, JEE (Advanced) 2023 IIT Kharagpur Kharagpur – 721302	Phone: +91 3222 282102 E-mail: jeeadv@iitkgp.ac.in
North IIT Roorkee* IIT Mandi IIT Ropar	Chairperson JEE (Advanced) 2023 IIT Roorkee Roorkee – 247667	Phone: +91 1332 284272 E-mail: jeeoffice@iitr.ac.in

* Zonal Coordinating IIT, # Organizing IIT

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Participating Institutes



IIT Bhilai



IIT Bhubaneswar



IIT Bombay



IIT Delhi



IIT (ISM) Dhanbad



IIT Dharwad



IIT Gandhinagar



IIT Goa



IIT Guwahati



IIT Hyderabad



IIT Indore



IIT Jammu



IIT Jodhpur



IIT Kanpur



IIT Kharagpur



IIT Madras



IIT Mandi



IIT PALAKKAD

IIT Palakkad



IIT Patna



IIT Roorkee



IIT Ropar



IIT Tirupati



IIT (BHU) Varanasi