JEE (Advanced) 2018

Information Brochure

Organizing Institute

IIT Kanpur

IIT PALAKKAD

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Part-I

THE INSTITUTES

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, both in India and abroad, 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 inculcates 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 into various undergraduate programs (see **2. ACADEMIC PROGRAMS**) across IITs is through the Joint Entrance Examination (Advanced).

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	IIT (ISM)
Central Zone	Indian Institute of Technology Kanpur	Kanpur	IITK*
	Indian Institute of Technology Bhilai	Bhilai	IITBH
	Indian Institute of Technology (BHU)	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	IITJM
	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 Madras	Chennai	IITM*
	Indian Institute of Technology Hyderabad	Hyderabad	IITH
	Indian Institute of Technology Palakkad	Palakkad	IITPKD
	Indian Institute of Technology Tirupati	Tirupati	IITTP
West Zone	Indian Institute of Technology Bombay	Mumbai	IITB*
	Indian Institute of Technology Dharwad	Dharwad	IITDWD
	Indian Institute of Technology Gandhinagar	Gandhinagar	IITGN
	Indian Institute of Technology Goa	Goa	IITGOA

* Zonal Coordinating IITs to conduct JEE (Advanced) 2018 examination.

2. ACADEMIC PROGRAMS

Through JEE (Advanced), IITs offer admission into undergraduate courses leading to a Bachelor's, Integrated Master's or Bachelor-Master Dual Degree in Engineering, Sciences or Architecture. Both Bachelor's and Master's degrees are awarded to candidates enrolled in the dual degree programs upon successful completion of the course curriculum. In a some of the IITs, students enrolled into the 4-year Bachelor's 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 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 in the next page.

However, not all the listed programs and courses are available in all the institutes. The relevant programs and courses offered in 2017 are given in **Annexure-III: COURSES OFFERED IN THE ACADEMIC YEAR 2017-18.** The programs that will be offered in 2018 will be announced at the time of seat allocation (i.e., filling-in of choices for admission).

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 **Section 11**) can appear in JEE (Advanced). The successful candidates meeting the Class XII (or equivalent) performance criterion (see **Section 26**) are eligible for admission into IITs. While allotting seats, policies, as per Government of India rules, are followed depending on candidates' category and/or nationality.

TYPE OF ACADEMIC PROGRAMS OFFERED AT IITs WITH THEIR MINIMUM DURATION*

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., M.Des., Ph.D., etc. with different admission criteria.

3. RESERVATION OF SEATS

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

- 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 (www.ncbc.nic.in). OBCs present in the state list but not covered in the central list of OBCs (as per the list in 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: http://www.socialjustice.nic.in/ and www.tribal.nic.in).

- Persons with Disability (PwD) – 5% seats in each of OPEN, OBC-NCL, SC and ST category seats.

  Benefit would be given to those who have at least 40% impairment irrespective of the type of disability i.e., locomotor, visual or SEVERE dyslexic.

  Leprosy-cured candidates who are otherwise fit to pursue the courses are also included in this sub-category.

Candidates belonging to the OBC-NCL, SC, ST and PwD categories will be declared as qualified on the basis of a relaxed criterion (see **22. RANK LISTS)**.

Unfilled seats reserved under OBC-NCL category will be de-reserved to OPEN category seats. However, seats remaining vacant under the SC and ST categories shall **NOT** be de-reserved to any category. The reservation for PwD candidates is horizontal and hence, unfilled seats will be de-reserved to the respective categories i.e., unfilled SC-PwD seats will be converted to the SC category seats and so on.

The category of a candidate as entered in the database, which will be made available by the JEE Apex Board [which conducts JEE (Main) 2018 examination], will be final and requests for change of category will NOT be entertained.

4. DEFENCE SERVICE CANDIDATES

Defence Service (DS) candidates are children of defence / paramilitary personnel killed or permanently disabled in action during war or peacetime operations. 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) 2018 (see **22. RANK LISTS).**

5. FOREIGN NATIONALS

Candidates who are **NOT** citizens of India (by birth or naturalized), do not belong to PIO/OCI category, and whose parents are not citizens of India and do not come under PIO/OCI category at the time of registering for JEE (Advanced) 2018 are treated as foreign nationals. Seats allotted to foreign nationals are supernumerary with a cap of 10% of total number of seats in every course. However, the seats allotted to PIO/OCI card holders will be under OPEN category, but not supernumerary.

Foreign nationals are outside the ambit of reservation of seats under the OBC-NCL, SC, ST and PwD categories as specified herein. The relevant information for foreign candidates is available at the following link:

https://www.jeeadv.ac.in/Foreign-Candidates.html

6. SUPERNUMERARY SEATS FOR FEMALE CANDIDATES

A decision has been taken at the level of the IIT Council to, inter alia, improve the gender balance in the undergraduate programs at the IITs from the current (approximately) 8% to 14% in 2018-19 by creating supernumerary seats specifically for female candidates, without any reduction in the number of seats that

was made available to non-female candidates in the previous academic year (i.e. academic year 2017-2018). Accordingly, to achieve this objective, and in accordance with the directions of the Ministry of Human Resource Development, Government of India, supernumerary seats will thus be created and offered to 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) - 2018, and, (b) strictly based on the performance in JEE (Advanced) - 2018.

The reservation policy as per Government of India norms as existing at present will be applicable to these supernumerary seats as well. The detailed procedure for implementation of the above shall be set out in the Business Rules of the Joint Seat Allocation Authority, 2018.

7. OTHER INSTITUTES

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

- Indian Institute of Science, Bangalore (IISc)
- 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
- Indian Institute of Petroleum & Energy, Visakhapatnam

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

Part-II

THE EXAMINATION

8. THE EXAMINATION

The Joint Entrance Examination (Advanced) 2018 [JEE (Advanced) 2018] will be conducted by the seven Zonal Coordinating (ZC) IITs under the guidance of the Joint Admission Board (JAB) 2018. The performance of a candidate in this examination will form the basis for admission to the Bachelor's, Integrated Master's and Dual Degree programs (entry at the 10+2 level) in all the IITs. The decisions of the JAB 2018 will be final in all matters related to JEE (Advanced) 2018 and admission to IITs.

9. SCHEDULE OF JEE (ADVANCED) 2018

The examination consists of two papers (Paper 1 and Paper 2) of three hour duration each. **Both the papers are compulsory.** The examination will be held as per the following schedule:

Date of Examination	**Sunday, 20 May 2018**
Paper 1	09:00 IST to 12:00 IST
Paper 2	14:00 IST to 17:00 IST

It may be noted that the schedule will remain the same even if 20 May 2018 is declared a public holiday.

ONLY those PwD candidates permitted to use the services of a scribe (see **14. SERVICES OF A SCRIBE**) will get one hour compensatory time, i.e., the end time will be 13:00 IST for Paper 1 and 18:00 IST for Paper 2.

10. JEE (MAIN) 2018

Indian nationals (including PIO/OCI) who wish to appear in JEE (Advanced) 2018 must write Paper-1 of JEE (Main) 2018 which will be held in the month of April 2018. Further information about JEE (Main) 2018 may be obtained from the website www.jeemain.nic.in.

11. ELIGIBILITY CRITERIA FOR INDIAN NATIONALS (including PIO/OCI) FOR APPEARING IN JEE (ADVANCED) 2018

All the candidates must fulfil **each and every one of the following five criteria** to appear in JEE (Advanced) 2018.

Criterion 1 – Performance in JEE (Main) 2018: Candidates should be among the top 2,24,000* (including all categories) in Paper-1 of JEE (Main) 2018.

The percentages of various categories of candidates to be shortlisted are: 27% for OBC-NCL, 15% for SC, 7.5% for ST and the remaining 50.5% is OPEN for all. Within each of these four categories, 5% horizontal reservation is available for PwD candidates.

The following table show the order to be followed while choosing top 2,24,000* candidates in various categories based on the performance in Paper-1 of JEE (Main) 2018.

Category-wise distribution of top 2,24,000* candidates (Criterion 1)

Order	Category	Number of "Top" candidates	
1	OPEN	1,07,464	Total: 1,13,120
2	OPEN-PwD	5,656	
3	OBC-NCL	57,456	Total: 60,480
4	OBC-NCL-PwD	3,024	
5	SC	31,920	Total: 33,600
6	SC-PwD	1,680	
7	ST	15,960	Total: 16,800
8	ST-PwD	840	

* The total number of candidates can be slightly greater than 2,24,000 in the presence of "tied" ranks/scores in any category.

Criterion 2 – Age limit: Candidates should have been born on or after October 1, 1993. Five years relaxation is given to SC, ST and PwD candidates, i.e., these candidates should have been born on or after October 1, 1988.

Criterion 3 – Number of attempts: A candidate can attempt JEE (Advanced) a 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 2017 or 2018.

However, if the examination Board of Class XII (or equivalent) declares the results for the academic year 2015-16 after June 2016, then the candidates of that board who appeared for their class XII exam in 2016 are also eligible to appear in JEE (Advanced) 2018, provided they meet the other eligibility criteria. In case, the examination Board of Class XII (or equivalent) declared the results for the academic year 2015-16 before June 2016 but the result of a particular candidate was withheld, then the candidate will not be eligible to appear in JEE (Advanced) 2018.

Criterion 5 – Earlier admission at IITs: A candidate should **NOT** have been admitted in an IIT irrespective of whether or not he/she continued in the program **OR** accepted an IIT seat by reporting at a reporting centre in the past. Candidates whose admission at IITs was cancelled after joining any IIT are also **NOT** eligible to appear in JEE (Advanced) 2018.

Candidates who have been admitted to a preparatory course in any of the IITs for the first time in 2017 can appear in JEE (Advanced) 2018.

The candidates who paid seat acceptance fee in 2017 but (i) did not report 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, during the joint seat allocation in 2017, are eligible to appear in JEE (Advanced) 2018.

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

Eligibility criteria for foreign candidates can be found at:
https://www.jeeadv.ac.in/Foreign-Candidates.html

12. REGISTRATION FOR JEE (ADVANCED) 2018

Eligibility: All Indian nationals (including OCI/PIO) should satisfy each and every one of the five eligibility criteria [see **11. ELIGIBILITY CRITERIA FOR APPEARING IN JEE (ADVANCED) 2018]**. 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 in JEE (Advanced) 2018. Registration is only through the online registration portal where detailed instructions for registration will be provided.

Online registration portal	www.jeeadv.ac.in
Online registration begins	Wednesday, May 2, 2018 10:00 IST
Online registration closes	Monday, May 7, 2018 17:00 IST
Last date for fee payment for registered candidates	Tuesday, May 8, 2018 upto 17.00 IST

Registration Procedure: The procedure consists of three basic steps.

Step-1: After login, provide the basic data and the choices of the cities for the examination [See **19. CITIES AND TOWNS WHERE JEE (ADVANCED) 2018 WILL BE HELD**]. The candidate will have the option of adding an additional mobile phone number and an additional email id, in addition to the number(s) provided during JEE (Main) 2018 registration. Please note that all the correspondence regarding JEE (Advanced) 2018 will be sent to the registered mobile number by SMS and/or to the registered email id by email.

Step-2: Upload the scanned copies of all requisite documents [See **15. DOCUMENTS REQUIRED FOR REGISTRATION**].

Step-3: Pay registration fee [See **13. REGISTRATION FEE FOR JEE (ADVANCED) 2018**]. Registration fee is **NEITHER** refundable **NOR** transferable.

Foreign Candidates may check the link: https://www.jeeadv.ac.in/Foreign-Candidates.html

13. REGISTRATION FEE FOR JEE (ADVANCED) 2018

	Registration Fee for Examination Centres in India	
Indian Nationals (including PIO/OCI)	Female Candidates (all categories)	INR 1300
	SC, ST, PwD Candidates	INR 1300
	All Other Candidates	INR 2600
Foreign Nationals	Candidates from SAARC countries	USD 160
	Candidates from Non-SAARC countries	USD 300

	Registration Fee for Examination Centres in Foreign countries	
Indian Nationals (including PIO/OCI)	All Indian Nationals	USD 160
Foreign Nationals	Candidates from SAARC countries	USD 160
	Candidates from Non-SAARC countries	USD 300

- The registration fee shown above DOES NOT INCLUDE service charges, processing fees and any other charges that the payment gateway/banks may levy.
- Detailed instructions related to the payment of registration fee will be provided at the time of JEE (Advanced) 2018 registration on the online registration portal.

14. SERVICES OF A SCRIBE

- **The services of a scribe (amanuensis) are available ONLY to those PwD candidates who are visually impaired OR dyslexic OR have disability in the upper limbs or have lost fingers / hands** thereby preventing them to properly operate the Computer Based Test platform. PwD candidates who desire to avail the services of a scribe need to opt for this during the online registration of JEE (Advanced) 2018.

- PwD candidates permitted to use the services of a scribe will get one hour compensatory time i.e., the end time will be 13:00 IST for Paper 1 and 18:00 IST for Paper 2.
- To avail the services of scribe, the candidate should request the Chairman, JEE (Advanced) 2018, of the respective zonal coordinating IIT in the prescribed format (FORM-SCRIBE). The requisition, along with a copy of the PwD certificate (FORM-PwD [II/III/IV, whichever is applicable]) OR a copy of the certificate of Dyslexic candidate (FORM- DYSLEXIC 1 and DYSLEXIC 2, whichever is applicable), should be uploaded at the time of online registration for JEE (Advanced) 2018. The formats for the request letter and PwD/Dyslexic certificate are given in **Annexure-II: CERTIFICATE FORMATS**.
- Zonal coordinating IITs will make arrangements, through the Presiding Officer (PO) of the Examination Centre, to provide a panel of scribes (amanuenses). Scribes will be students of Class XI from the science stream with Mathematics as one of the subject. The PwD/dyslexic 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 scribe one day prior to the examination i.e., on Saturday, 19 May 2018, in the presence of the IIT Representatives (IRs), Presiding Officer (PO) and an Invigilator, and choose her/his scribe.
- **If it is found at any stage that a candidate has used the services of a scribe, and consequently availed the benefit of one extra hour, but does not possess the extent of disability that warrants the use of a scribe, she/he will be excluded from the process of evaluation, ranking and admission. In case such a candidate has already been admitted to any IIT, her/his admission will be cancelled.**

15. DOCUMENTS REQUIRED FOR REGISTRATION

Given below is a list of certificates whose scanned copies are to be uploaded at the time of online registration for JEE (Advanced) 2018. The formats of the certificates, which are indicated in the brackets, are given in **Annexure-II:**

CERTIFICATE FORMATS.

All candidates

(1) Class X certificate if the date of birth is mentioned in it OR birth certificate.

(2) Class XII (or equivalent examination) certificate (for those who appeared for this examination in 2017 or whose board declared the Class XII (or equivalent examination) result after June 2016).

(3) If the name is not same as in the Class X certificate, gazette notification showing the change of name.

For Candidates seeking admission under the OBC-NCL category

OBC-NCL certificate (FORM-OBC-NCL) should have been issued on or after April 01, 2018 in confirmation with the latest guidelines of the Government of India. If any OBC-NCL candidate fails to collect the OBC-NCL certificate (issued after April 1, 2018) before online registration, he/she may upload a declaration (Declaration in Lieu of OBC-NCL Certificate) to that effect. Visit www.ncbc.nic.in for latest guidelines and updates on the Central List of State-wise OBCs.

For Candidates seeking admission under the SC or ST category

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

For Candidates seeking admission under the PwD category

Physical Disability certificate (FORM-PwD II/III/IV whichever is applicable]) issued by the notified medical authority.

Dyslexic candidate needs to submit FORM-DYSLEXIC 1 and 2 instead of FORM-PwD. The certificate must mention 'SEVERE' to enable the candidate get the benefit of PwD category.

Individual IITs may constitute a medical board at the time of admission to test the candidate's level of disability.

For Candidates needing the services of a scribe

Request letter to the Chairman of the respective zonal coordinating IIT (FORM-SCRIBE).

For Candidates seeking admission under the DS category

Certificate (FORM-DS) issued by a competent authority in the Directorate of Resettlement and Rehabilitation, New Delhi under the Ministry of Defence or the Ministry of Home Affairs, Govt. of India.

For PIO/OCI Card holders

PIO card or OCI certificate, as applicable.

Foreign Candidates may check the link:

https://www.jeeadv.ac.in/Foreign-Candidates.html

For Candidates whose Class XII examination Board is outside India or not listed in Section 25 (See 25. EXAMINATIONS CONSIDERED AS 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.

16. ADMIT CARD

- Candidates who successfully registered for JEE (Advanced) 2018 can download the admit card from the online registration portal: www.jeeadv.ac.in

Portal for downloading admit card	www.jeeadv.ac.in
Admit card downloading schedule	Monday, May 14, 2018, 10:00 IST to Sunday, May 20, 2018, 09:00 IST

- The admit card will bear the following details of the candidate: Name, Roll number for JEE (Advanced) 2018, 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, contact the Chairman, JEE (Advanced) 2018 of the respective zonal coordinating IIT.
- In case of any problem in downloading of the admit card, the candidate should immediately contact the Chairman, JEE (Advanced) 2018 of their respective zonal coordinating IIT.
- A copy of the downloaded admit card should be produced at the time of examination. The original admit card will be issued to the candidate during the Paper 1 of the JEE (Advanced) 2018 examination. **This original admit card must be retained safely till all the formalities of admission are complete.**

17. QUESTION PAPERS

- JEE (Advanced) 2018 will consist of two question papers: Paper 1 and Paper 2 of three hours duration each. **Both papers are 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 objective type (multiple choice and/or numerical answer type) questions designed to test comprehension, reasoning and analytical ability of candidates.
- Negative marks may be awarded for incorrect answers of 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 English and Hindi languages. The candidates will have the option to choose (and also switch between) the preferred language anytime during the examination.

18. MODE OF EXAMINATION

The JEE (Advanced) 2018 examination will be conducted only in the Computer Based Test (CBT) mode.

Every candidate will be allotted a computer terminal (node) at the test centre. The welcome login screen for the CBT will display photograph of the candidate allotted the particular computer. For login, the candidate will have to enter his/her JEE (Advanced) 2018 roll number as login-id and enter his/her date of birth as password (e.g. if the candidate's date of birth is April 8, 1999, the password he/she need to enter would be 08041999 (**ddmmyyyy** format)).

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 start of the examination, the candidates will be able proceed and see the questions

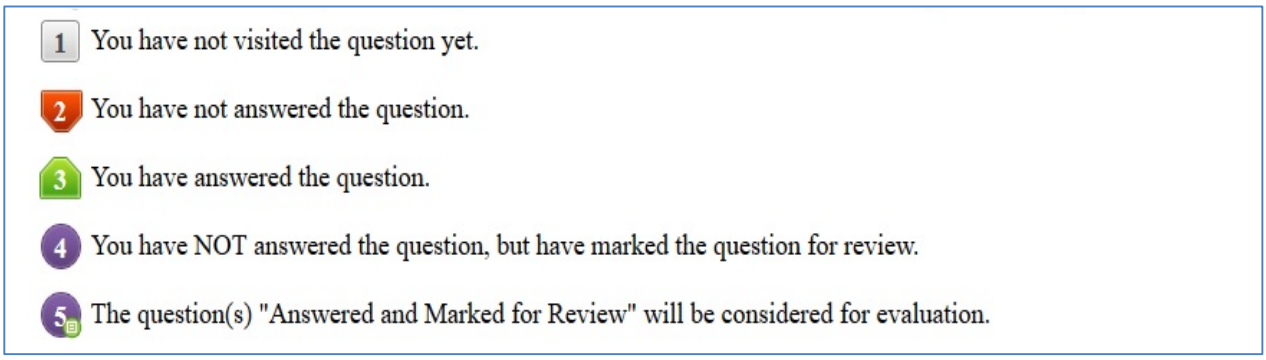
on the computer screen. Candidates will have the option to choose (and also switch/toggle between) his/her preferred language (English or Hindi) during the entire period of the examination.

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 the chosen option(s) using the computer mouse. Candidates will have the option to change/modify answers already entered anytime during the entire duration of the examination.

In case the computer/mouse allotted to any candidate malfunctions anytime during the test, he/she will be immediately allotted another computer system and the time lost due to this will be adjusted in the server so as to give the candidate the full allotted time of 3 hours (180 minutes) to answer the questions in each paper.

18.1 General Instructions for CBT:

1. Total duration of each paper of JEE (Advanced) 2018 examination is of 3 hours (180 minutes) duration.
2. The on-screen computer clock counter of every candidate will be set at the server. The countdown timer in 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.
3. The Question Palette displayed on the right side of screen will show the status of each question using one of the following symbols:



4. The “Marked for Review” status for a question indicates that candidate would like to have a relook at that question again. A candidate has the option of answering a question and simultaneously “Marked for Review”, these answers 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 any time during the examination by clicking on the corresponding question number icon displayed on the Question Palette of the corresponding section.
5. Candidate can click on the ">" arrow which appears to the left of question palette to collapse the question palette thereby maximizing the question viewing window. To view the question palette again, candidate can click on "<" which appears on the right side of question window.
5. Candidate can change the preferred language (English or Hindi) for displaying the questions, anytime during the duration of the examination, by clicking on the dropdown menu in “View In” icon provided on the right side of the screen.
6. Candidate can click on to navigate to the bottom and to navigate to the top of the question area, without scrolling. Using the computer mouse the candidate can scroll up and down the question viewing area for viewing the entire question.
7. The full paper can be viewed by clicking the “Question Paper” icon on the top right corner of the screen.

8. *Scribble Pads* for doing rough work/calculations will be provided to the candidates. The *Scribble Pads* would have a Header page for the candidates to write down his/her *Name* and *Registration Number*. Candidates MUST submit his/her signed Scribble Pads at the end of each paper of the examination given to him/her at the start of the paper.

18.2 Navigating to a Question:

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

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

a. Click on the question number in the Question Palette at the right 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 of 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 (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 (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) Candidate will have to use the on-screen virtual keyboard (that would be displayed just below the question statement of these type of questions) and the attached computer mouse to enter his/her answer in the space provided for answer.

b) The answer can be changed, if required, anytime during the test. To save the answer, the candidate MUST click on the "**Save & Next"** button.

c) To mark the question for review (without answering it), click on the "**Mark for Review & Next"** button.

Candidate will have the option to change previously saved answer of any question, anytime 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 in which candidate is currently viewing will be highlighted.

2. After clicking the "Save & Next" button on the last question for a section, candidate will automatically be taken to the first question of the next section.
3. Candidate can shuffle between sections and questions within sections anytime during the examination as per the convenience only during the time stipulated.
4. 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) 2018 WILL BE HELD

JEE (Advanced) 2018 will be held in select cities and towns in India. Candidates have to compulsorily choose five cities / towns from a zone of their choice at the time of online registration. **Efforts will be made to allot the city / town from among the candidate's choice but a different city / town in the same zone may be allotted under exceptional circumstances. Request for change of city / town will NOT be entertained under any circumstance.** A tentative list of cities/towns where JEE (Advanced) 2018 examination will be held is given in the following table. The final list of examination cities/towns would be notified before the start of the online JEE (Advanced) 2018 registration.

TENTATIVE LIST OF CITIES AND TOWNS FOR JEE (ADVANCED) 2018

City/Town	Code
IIT BOMBAY ZONE	
GOA	
Madgaon	101
Panaji	102
GUJARAT	
Ahmedabad	103
Bhavnagar	104
Bhuj	105
Gandhinagar	106
Rajkot	107
Surat	108
Vadodara	109
KARNATAKA	
Bengaluru	110
Dharwad	111
Gulbarga	112
Mangaluru	113
Mysuru	114
MAHARASHTRA	
Amravati	115
Aurangabad	116
Kolhapur	117
Mumbai	118
Nagpur	119
Nanded	120
Nashik	121
Navi Mumbai	122
Pune	123
Thane	124
Vasai	125
ETHIOPIA	
Addis Ababa	151

City/Town	Code
IIT DELHI ZONE	
DELHI NCR	
Delhi (East)	201
Delhi (North)	202
Delhi (South)	203
Delhi (West)	204
Faridabad	205
Greater Noida	206
Gurugram	207
Noida	208
Palwal	209
JAMMU and KASHMIR	
Jammu	210
RAJASTHAN	
Ajmer	211
Alwar	212
Bikaner	213
Jaipur	214
Jodhpur	215
Sikar	216
Udaipur	217
NEPAL	
Kathmandu	251

City/Town	Code
IIT GUWAHATI ZONE	
ARUNACHAL PRADESH	
Naharlagun	301
ASSAM	
Guwahati	302
Jorhat	303
Silchar	304
Tezpur	305
BIHAR	
Arrah	306
Bhagalpur	307
Bihar Sharif	308
Darbhanga	309
Gaya	310
Muzaffarpur	311
Patna	312
Purnea	313
Samastipur	314
MANIPUR	
Imphal	315
MEGHALAYA	
Shillong	316
MIZORAM	
Aizawl	317
WEST BENGAL	
Siliguri	318
SIKKIM	
Gangtok	319
TRIPURA	
Agartala	320

City/Town	Code
IIT GUWAHATI ZONE (contd.)	
SINGAPORE	
Singapore	351

City/Town	Code
IIT KANPUR ZONE	
MADHYA PRADESH	
Bhopal	401
Indore	402
Jabalpur	403
UTTAR PRADESH	
Allahabad	404
Faizabad	405
Gorakhpur	406
Jhansi	407
Kanpur	408
Lucknow	409
Varanasi	410

City/Town	Code
IIT KHARAGPUR ZONE	
ANDAMAN & NICOBAR ISLANDS	
Port Blair	501
ANDHRA PRADESH	
Visakhapatnam	502
CHHATTISGARH	
Bhilai	503
Bilaspur	504
Raipur	505
JHARKHAND	
Bokaro	506
Dhanbad	507
Jamshedpur	508
Ranchi	509
ODISHA	
Berhampur	510
Bhubaneshwar	511
Cuttack	512
Rourkela	513
WEST BENGAL	
Asansol	514
Baharampur	515
Durgapur	516
Kalyani	517
Kharagpur	518
Kolkata (North)	519
Kolkata (Salt Lake)	520
Kolkata (South)	521
BANGLADESH	
Dhaka	551

City/Town	Code
IIT MADRAS ZONE	
ANDHRA PRADESH	
Anantapur	601
Eluru	602
Guntur	603
Kakinada	604
Kurnool	605
Nellore	606
Ongole	607
Rajahmundry	608
Tirupati	609
Vijayawada	610
KERALA	
Alappuzha	611
Kannur	612
Kasaragod	613
Kochi	614
Kollam	615
Kottayam	616
Kozhikode	617
Malappuram	618
Palakkad	619
Thiruvananthapuram	620
Thrissur	621
PUDUCHERRY	
Puducherry	622
TAMIL NADU	
Chennai	623
Coimbatore	624
Madurai	625
Salem	626
Tiruchirapalli	627
Tirunelveli	628

City/Town	Code
IIT MADRAS ZONE (contd.)	
TELANGANA	
Hyderabad	629
Karimnagar	630
Khammam	631
Mahabubnagar	632
Nizamabad	633
Warangal	634
UNITED ARAB EMIRATES	
Dubai	651

City/Town	Code
IIT ROORKEE ZONE	
CHANDIGARH	
Chandigarh	701
HARYANA	
Ambala	702
Bahadurgarh	703
Hisar	704
Kurukshetra	705
Panipat	706
HIMACHAL PRADESH	
Hamirpur	707
Mandi	708
Shimla	709
Madhya Pradesh	
Gwalior	710

City/Town	Code
IIT ROORKEE ZONE (contd.)	
PUNJAB	
Amritsar	711
Bathinda	712
Jalandhar	713
Ludhiana	714
Mohali	715
Patiala	716
UTTARAKHAND	
Dehradun	717
Haldwani	718
Haridwar	719
Bhimtal	720
Roorkee	721
UTTAR PRADESH	
Agra	722
Aligarh	723
Bareilly	724
Ghaziabad	725
Mathura	726
Meerut	727
Moradabad	728
SRI LANKA	
Colombo	751

20. IMPORTANT INSTRUCTIONS

- Candidates must carry a printed copy of the downloaded admit card and their original photo identity card for the examination. Only candidates having a valid admit card will be allowed to write the examination. The candidates will be given the original admit cards upon identity verification during the examination.
- The candidate's identity will be verified by invigilators as well as IIT representatives. If the identity of the candidate is in doubt, the candidate may not be allowed to appear in the examination. However, the authorities at their discretion may provisionally permit the candidate to appear in 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.
- Impersonation in the examination is a serious offence and will lead to disqualification of the candidate from JEE (Advanced) 2018.
- Only pens, pencils, downloaded admit card and an original photo identity card are allowed to be taken inside the examination hall. Candidates will **NOT** be allowed to carry any electronic devices (e.g. mobile phones, smart phones, calculators, iPAD, tabs, digital watches etc.), abacus, slide rule, log books, study material of any type, geometry box, written or white (blank) paper/piece of paper, wallets, etc. to the examination hall. Candidates are advised not to wear items containing metals such as rings, bracelet, earrings, pendants or cloths with big buttons.
- Candidates must report to the examination centres well in advance. **Candidates arriving at the examination centre after commencement of the examination in each paper (09:00 IST for Paper 1 and 14:00 IST for Paper 2) will not be allowed to take the test.**

- 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 17:00 IST for Paper 2.
- **Both Paper 1 and Paper 2 are compulsory.** Therefore, the responses of ONLY those candidates who have appeared in both Paper 1 and Paper 2 will be evaluated/graded.

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 exam, will be electronically mailed to their registered email ids.
- The answer keys for both Paper 1 and Paper 2 will be displayed on the online portal.

Copy of candidate responses to be sent to the candidates	By Friday, May 25, 2018, 10:00 IST
Online display of answer keys at https://www.jeeadv.ac.in/	Tuesday, May 29, 2018, 10:00 IST
Receiving feedback from candidates on answer keys through candidate portal	Tuesday, May 29, 2018, 10:00 IST to Wednesday, May 30, 2018, 17:00 IST

22. RANK LISTS

- Only candidates who appear in both Paper 1 and Paper 2 will be considered for ranking.
- The marks obtained by a candidate in Physics in JEE (Advanced) 2018 will be equal to the marks scored in Physics part of Paper 1 plus the marks scored in 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) 2018 is the sum of the marks awarded to him/her in Physics, Chemistry and Mathematics.
- Rank lists are prepared based on the aggregate marks in JEE (Advanced) 2018.
- 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 section **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 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 candidates who score the minimum prescribed marks in each subject and in aggregate will be included in the rank list. The minimum prescribed marks varies 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
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
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: CRL is the rank list in which all candidates (across all categories) will be given ranks.

23. RESULTS OF JEE (ADVANCED) 2018

- Results will be declared on Sunday, June 10, 2018 10:00 IST. Category-wise All India Ranks (AIR) of successful candidates will be available through the 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.
- However, qualifying in JEE Advanced (2018), filling up choices and/or participating in the joint seat allocation process do not guarantee a candidate to get admission in IITs. Admission will depend on 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 Kharagpur and IIT Roorkee only. Candidates desirous of joining the B. Arch. (Architecture) program will have to PASS in the Architecture Aptitude Test (AAT). Only those candidates who have qualified in JEE (Advanced) 2018 are eligible to appear in AAT 2018.

- Syllabus for AAT is given in **Annexure-I: SYLLABI.**
- Candidates must register online at the JEE (Advanced) 2018 online portal for AAT.
- AAT will be conducted only at the seven zonal coordinating IITs.
- The test will consist of one paper of three hours duration.
- The question paper for AAT will be available only in English language.
- No separate admit card will be issued for AAT. The original admit card of JEE (Advanced) 2018 should be produced in the AAT examination hall.
- Candidates should bring their own drawing and colouring aids.
- The Joint Implementation Committee of JEE (Advanced) 2018 will decide the cut-off marks for passing AAT.
- Results of AAT will be declared on the JEE (Advanced) 2018 online portal.
- Candidates securing marks above the cut-off will be declared PASS in the test. There is no separate ranking in the AAT. There is no separate cut-off for students of any category.
- Allotment of seat will be solely based on the category-wise All India Rank in the JEE (Advanced) 2018.

Schedule of AAT

Portal for AAT Registration	https://www.jeeadv.ac.in/
Registration for AAT	Sunday, June 10, 2018, 10:00 IST to Monday, June 11, 2018, 17:00 IST
Architecture Aptitude Test	Thursday, June 14, 2018 09:00 to 12:00 IST
Declaration of AAT Results	Monday, June 18, 2018

Part-III

ADMISSION

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

- The candidates should satisfy **at least one of the following two criteria** for admission to IITs:

  (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 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) 2018 will be final.
- 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.
- For candidates who appeared in the Class XII (or equivalent) Board examination for the first time in 2017 and reappeared in ALL subjects (for whatsoever reason) in 2018, 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 only the marks scored 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.
- 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.

Foreign candidates may follow the link

https://www.jeeadv.ac.in/Foreign-Candidates.html **for eligibility criteria.**

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 candidates who pass in their respective boards 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 reiterated that top 20 percentile cut-off for the academic year 2018 will be considered for the candidates who pass the Class XII (or equivalent) examination in 2018.
- Similarly, top 20 percentile cut-off for the academic year 2017 will be considered for the candidates who pass the Class XII (or equivalent) examination in 2017.
- Candidates who appeared in Class XII (or equivalent) examination for the first time in 2017 and wish to (or have to) reappear in 2018 with the objective to qualify through top 20 percentile cut-off criteria, should reappear in all the subjects. For such candidates, top 20 percentile cut-off for 2018 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 CBSE will be used.

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

- The aggregate marks scored by the candidate in the 2018 Class XII (or equivalent) Board examination will be considered for candidates who pass the Class XII examination in 2018.

- The aggregate marks scored by the candidate in the 2017 Class XII (or equivalent) Board examination will be considered provided the candidate does not reappear in the Class XII (or equivalent) examination in 2018 in any of the subjects.
- If a candidate has passed his/her Class XII (or equivalent) in 2017 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 2017 or 2018, whichever is higher, in the respective subjects, in his/her two attempts in 2017 and 2018.

27. JOINT SEAT ALLOCATION

- The seats across IITs, NITs, IIITs and other Govt. Funded Technical Institutes (GFTIs) will be allocated by the Joint Seat Allocation Authority (JoSAA).
- All the candidates who are eligible for admission will have to participate in the joint seat allocation process by filling in their choices of the courses. The detailed instructions for filling-in the choices and the seat allotment procedure will be made available by JoSAA through Seat Allotment Brochure.
- The schedule of the joint seat allocation will be announced separately by JoSAA 2018.
- The list of courses that will be offered by the IITs for admission for the academic year 2018-19 will be made available at the time of online filling-in of choices.

28. PREPARATORY COURSES

- The vacant seats reserved for SC, ST and PwD candidates will be allotted to the candidates of respective categories for admission to a preparatory course of 1-year duration on the basis of relaxed admission criteria (see **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.
- All the 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 2018-19) to which they have been allocated. At the end of this course, candidates are declared as 'pass' or 'fail'.
- On successful completion of the course, the candidates will be offered direct admission in July 2019 (Academic Year 2019-20) to the already allotted undergraduate course.
- Candidates admitted to the preparatory course are also eligible to appear in JEE (Advanced) 2019 subject to fulfilling other eligibility criteria.
- Filling-in of choices for preparatory courses is through the same online portal.

29. ADDITIONAL REQUIREMENTS FOR CERTAIN COURSES

- Those who opt for Mining Engineering, Mining Machinery Engineering, Integrated M.Sc. program in Geology or Geophysics, or Petroleum Engineering should not have any form of colour blindness. A certificate to this effect from a govt. registered medical practitioner has to be produced at the time of seat acceptance. IITs may constitute a medical board to test the validity of the candidate's medical condition.
- 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 2017-18

The relevant courses offered by IITs in the academic year 2017-18 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 2018 may vary. A few of the courses offered in 2017 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 at the time of filling-in of the choices for seat allocation.

32. Grievances

All stages of JEE (Advanced) 2018 will be conducted with transparency. Should there be any grievance relating to JEE (Advanced) 2018, the candidate can write to the Chairman of the Zonal IIT, or to the Organizing Chairman of JEE (Advanced) 2018 for clarification.

Annexure-I

SYLLABI

CHEMISTRY

Physical chemistry

General topics

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

Gaseous and liquid states

Absolute scale of temperature, ideal gas equation; 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; Vapour pressure; Diffusion of gases.

Atomic structure and chemical bonding

Bohr model, spectrum of hydrogen atom, quantum numbers; Wave-particle duality, de Broglie hypothesis; Uncertainty principle; Qualitative quantum mechanical picture of hydrogen atom, shapes of *s*, *p* and *d* orbitals; Electronic configurations of elements (up to atomic number 36); Aufbau principle; Pauli's exclusion principle and Hund's rule; Orbital overlap and covalent bond; Hybridisation involving *s*, *p* and *d* orbitals only; Orbital energy diagrams for homonuclear diatomic species; Hydrogen bond; Polarity in molecules, dipole moment (qualitative aspects only); VSEPR model and shapes of molecules (linear, angular, triangular, square planar, pyramidal, square pyramidal, trigonal bipyramidal, tetrahedral and octahedral).

Energetics

First law of thermodynamics; Internal energy, work and heat, pressure-volume work; Enthalpy, Hess's law; Heat of reaction, fusion and vapourization; Second law of thermodynamics; Entropy; Free energy; Criterion of spontaneity.

Chemical equilibrium

Law of mass action; Equilibrium constant, Le Chatelier's principle (effect of concentration, temperature and pressure); Significance of ΔG and ΔG^0 in chemical equilibrium; Solubility product, common ion effect, pH and buffer solutions; Acids and bases (Bronsted and Lewis concepts); Hydrolysis of salts.

Electrochemistry

Electrochemical cells and cell reactions; Standard electrode potentials; Nernst equation and its relation to ΔG; Electrochemical series, emf of galvanic cells; Faraday's laws of electrolysis; Electrolytic conductance, specific, equivalent and molar conductivity, Kohlrausch's law; Concentration cells.

Chemical kinetics

Rates of chemical reactions; Order of reactions; Rate constant; First order reactions; Temperature dependence of rate constant (Arrhenius equation).

Solid state

Classification of solids, crystalline state, seven crystal systems (cell parameters *a*, *b*, *c*, α, β, γ), close packed structure of solids (cubic), packing in fcc, bcc and hcp lattices; Nearest neighbours, ionic radii, simple ionic compounds, point defects.

Solutions

Raoult's law; Molecular weight determination from lowering of vapour pressure, elevation of boiling point and depression of freezing point.

Surface chemistry

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

Nuclear chemistry

Radioactivity: isotopes and isobars; Properties of α, β and γ rays; Kinetics of radioactive decay (decay series excluded), carbon dating; Stability of nuclei with respect to proton-neutron ratio; Brief discussion on fission and fusion reactions.

Inorganic chemistry

Isolation/preparation and properties of the following non-metals

Boron, silicon, nitrogen, phosphorus, oxygen, sulphur and halogens; Properties of allotropes of carbon (only diamond and graphite), phosphorus and sulphur.

Preparation and properties of the following compounds

Oxides, peroxides, hydroxides, carbonates, bicarbonates, chlorides and sulphates of sodium, potassium, magnesium and calcium; Boron: diborane, boric acid and borax; Aluminium: alumina, aluminium chloride and alums; Carbon: oxides and oxyacid (carbonic acid); Silicon: silicones, silicates and silicon carbide; Nitrogen: oxides, oxyacids and ammonia; Phosphorus: oxides, oxyacids (phosphorus acid, phosphoric acid) and phosphine; Oxygen: ozone and hydrogen peroxide; Sulphur: hydrogen sulphide, oxides, sulphurous acid, sulphuric acid and sodium thiosulphate; Halogens: hydrohalic acids, oxides and oxyacids of chlorine, bleaching powder; Xenon fluorides.

Transition elements (3d series)

Definition, general characteristics, oxidation states and their stabilities, colour (excluding the details of electronic transitions) and calculation of spin-only magnetic moment; Coordination compounds: nomenclature of mononuclear

coordination compounds, cis-trans and ionisation isomerisms, hybridization and geometries of mononuclear coordination compounds (linear, tetrahedral, square planar and octahedral).

Preparation and properties of the following compounds

Oxides and chlorides of tin and lead; Oxides, chlorides and sulphates of Fe^{2+}, Cu^{2+} and Zn^{2+}; Potassium permanganate, potassium dichromate, silver oxide, silver nitrate, silver thiosulphate.

Ores and minerals

Commonly occurring ores and minerals of iron, copper, tin, lead, magnesium, aluminium, zinc and silver.

Extractive metallurgy

Chemical principles and reactions only (industrial details excluded); Carbon reduction method (iron and tin); Self reduction method (copper and lead); Electrolytic reduction method (magnesium and aluminium); Cyanide process (silver and gold).

Principles of qualitative analysis

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

Organic chemistry

Concepts

Hybridisation of carbon; σ and π-bonds; Shapes of simple organic molecules; Structural and geometrical isomerism; Optical isomerism of compounds containing up to two asymmetric centres, (R,S and E,Z nomenclature excluded); IUPAC

nomenclature of simple organic compounds (only hydrocarbons, mono-functional and bi-functional compounds); Conformations of ethane and butane (Newman projections); Resonance and hyperconjugation; Keto-enoltautomerism; Determination of empirical and molecular formulae of simple compounds (only combustion method); Hydrogen bonds: definition and their effects on physical properties of alcohols and carboxylic acids; Inductive and resonance effects on acidity and basicity of organic acids and bases; Polarity and inductive effects in alkyl halides; Reactive intermediates produced during homolytic and heterolytic bond cleavage; Formation, structure and stability of carbocations, carbanions and free radicals.

Preparation, properties and reactions of alkanes

Homologous series, physical properties of alkanes (melting points, boiling points and density); Combustion and halogenation of alkanes; Preparation of alkanes by Wurtz reaction and decarboxylation reactions.

Preparation, properties and reactions of alkenes and alkynes

Physical properties of alkenes and alkynes (boiling points, density and dipole moments); Acidity of alkynes; Acid catalysed hydration of alkenes and alkynes (excluding the stereochemistry of addition and elimination); Reactions of alkenes with $KMnO_4$ and ozone; Reduction of alkenes and alkynes; Preparation of alkenes and alkynes by elimination reactions; Electrophilic addition reactions of alkenes with X_2, HX, HOX and H_2O (X=halogen); Addition reactions of alkynes; Metal acetylides.

Reactions of benzene

Structure and aromaticity; Electrophilic substitution reactions: halogenation, nitration, sulphonation, Friedel-Crafts alkylation and acylation; Effect of *o*-, *m*- and *p*-directing groups in monosubstituted benzenes.

Phenols

Acidity, electrophilic substitution reactions (halogenation, nitration and sulphonation); Reimer-Tieman reaction, Kolbe reaction.

Characteristic reactions of the following (including those mentioned above)

Alkyl halides: rearrangement reactions of alkyl carbocation, Grignard reactions, nucleophilic substitution reactions; Alcohols: esterification, dehydration and oxidation, reaction with sodium, phosphorus halides, $ZnCl_2$/concentrated HCl, conversion of alcohols into aldehydes and ketones; Ethers: Preparation by Williamson's Synthesis; Aldehydes and Ketones: oxidation, reduction, oxime and hydrazone formation; aldol condensation, Perkin reaction; Cannizzaro reaction; haloform reaction and nucleophilic addition reactions (Grignard addition); Carboxylic acids: formation of esters, acid chlorides and amides, ester hydrolysis; Amines: basicity of substituted anilines and aliphatic amines, preparation from nitro compounds, reaction with nitrous acid, azo coupling reaction of diazonium salts of aromatic amines, Sandmeyer and related reactions of diazonium salts; carbylamine reaction; Haloarenes: nucleophilic aromatic substitution in haloarenes and substituted haloarenes (excluding Benzyne mechanism and Cine substitution).

Carbohydrates

Classification; mono- and di-saccharides (glucose and sucrose); Oxidation, reduction, glycoside formation and hydrolysis of sucrose.

Amino acids and peptides

General structure (only primary structure for peptides) and physical properties.

Properties and uses of some important polymers

Natural rubber, cellulose, nylon, teflon and PVC.

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; Chemical methods of separation of mono-functional organic compounds from binary mixtures.

MATHEMATICS

Algebra

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

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

Arithmetic, geometric and harmonic progressions, arithmetic, geometric and harmonic means, sums of finite arithmetic and geometric progressions, infinite geometric series, 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, determinant of a square matrix of order up to three, 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

Addition and multiplication rules of probability, conditional probability, Bayes Theorem, independence of events, computation of probability of events using permutations and combinations.

Trigonometry

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

Relations between sides and angles of a triangle, sine rule, cosine rule, half-angle formula and the area of a triangle, inverse trigonometric functions (principal value only).

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: Direction cosines and direction ratios, equation of a straight line in space, equation of a plane, distance of a point from a plane.

Differential calculus

Real valued functions of a real variable, into, onto and one-to-one functions, sum, difference, product and quotient of two functions, composite functions, absolute value, polynomial, rational, trigonometric, exponential and logarithmic functions.

Limit and 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.

Even and odd functions, inverse of a function, 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.

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

Integral calculus

Integration as the inverse process of differentiation, indefinite integrals of standard functions, definite integrals 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 involving simple curves.

Formation of ordinary differential equations, solution of homogeneous differential equations, separation of variables method, linear first order differential equations.

Vectors

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

PHYSICS

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 by Searle's method, 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.

Law of gravitation; Gravitational potential and field; Acceleration due to gravity; Motion of planets and satellites in circular orbits; Escape velocity.

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.

Linear and angular simple harmonic motions.

Hooke's law, Young's modulus.

Pressure in a fluid; Pascal's law; Buoyancy; Surface energy and surface tension, capillary rise; Viscosity (Poiseuille's equation excluded), 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); 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 and LC circuits with d.c. and a.c. sources.

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.

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.

Annexure-II

CERTIFICATE FORMATS

FORM-OBC-NCL

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.

District Magistrate /
Deputy Commissioner /
Any other Competent Authority

Dated:

Seal

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* **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

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.12018/6/2005-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

FORM-SC/ST

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/ Shirmati/ 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 (Lakshdweep Island).
6. Certificate issued by any other authority will be rejected.

FORM-PwD (II)

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-PwD(III)

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-PwD(IV)

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	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		

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

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

 # - e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

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 Dyslexia Association*}

Date:

PSYCHO-EDUCATION EVALUATION REPORT

Photograph of the Candidate

Name of the candidate:

Date of Birth:

Registration in the 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.

*Some Dyslexia Associations:

1. Dyslexia Trust of Kolkata, Divya Jalan, Aruna Bhaskar 3, Dover Park, Kolkata – 700019
2. Dyslexia Association Of Andhra Pradesh (DAAP), 3-4-494/1,1st Floor, Macherla Gastrology Hospital, Reddy College Road, Barkatpura, Hyderabad, Telangana, 500027
3. Madras Dyslexia Association, 94 Park View, 1st Floor, G.N. Chetty Road, T. Nagar, Chennai – 600017
4. Maharashtra Dyslexia Association, 003, Amit Park Bldg, L J Road, Deonar, Mumbai 400088
5. The Dyslexia Association of India, MZ-47, The Centre Stage Mall, Plot No 01, Block L, Sector 18, NOIDA 201303

**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.

Name 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:

Photograph

Name of the candidate:

Date of Birth:

Name and Address of the School/College:

Certified that Shri/Shrimati/Kumari _____

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-DS

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 of the authorized Officer

Office Address:

(In case of officers, Entitlement Card for Education Scholarship should be obtained from AG/MP-59B, Army HQ, New Delhi-11, and for Personnel Below Officer Rank (PBOR) the same be obtained from the respective Record Offices.)

FORM-SCRIBE

FORMAT OF REQUEST LETTER FOR SCRIBE AND EXTRA TIME FOR PwD CANDIDATES

From Date:

Name of the candidate: _____

Address: _____

_____

_____

Roll Number of JEE (Main) 2018: | |

Mobile No: _____ Email: _____

The Chairman
JEE (Advanced) 2018
Indian Institute of Technology, Bombay/ Delhi/ Guwahati/ Kanpur/ Kharagpur/ Madras/ Roorkee (Tick Appropriate Zone)

Dear Sir,

Subject: Requirement of SCRIBE and EXTRA TIME

I am a PwD candidate (Visually impaired/ dyslexic/ disability in the upper limbs or loss of fingers). I would like to use the service of a scribe for writing JEE (Advanced) 2018. I also request you to provide extra time of one hour to complete the paper as per the government norms. Kindly do the needful.

Thanking you,

_____ _____

Signature of the candidate Signature of the Parent/Guardian

(Name of the Parent/Guardian)

Declaration by the Candidate in Lieu of OBC-NCL Certificate

Name of the candidate: _____

Address: _____

_____

_____

Passport size photo

Roll Number of JEE (Main) 2018: | |

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, 2018.
Since I have not been able to collect the said certificate on time, I may kindly be allowed to write JEE (Adv.) 2018 provisionally. I hereby declare that I wrote JEE (Main) 2018 as OBC-NCL candidate and that I will upload a fresh certificate (issued on/after April 1, 2018) at the web portal by June 05, 2018.
I understand that inability to upload the same 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:

Annexure-III

COURSES OFFERED IN THE ACADEMIC YEAR 2017-18

IITs

		B	BBS	BHU	D	G	GN	H	I	J	K	KGP	M	MANDI	PKD	P	R	RPR	TP	ISM	GOA	BH	JM	DWD
B.Tech. (4 Years)																								
1	Aerospace Engineering	x									x	x	x											
2	Agriculture & Food Engineering											x												
3	Biological Sciences and Bioengineering										x													
4	Biotechnology					x											x							
5	Biotechnology & Biochemical Engineering				x							x												
6	Ceramic Engineering			x																				
7	Chemical Engineering	x		x	x	x	x	x			x	x	x			x	x	x		x				
8	Chemical Science and Technology					x																		
9	Civil Engineering	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x			x	
10	Computer Science & Engineering	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	Electrical Engineering	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	Electrical Engineering (Power & Automation)				x																			
13	Electronics & Communication Engineering		x			x											x			x				
14	Electronics & Electrical Communication Engineering											x												
15	Electronics & Electrical Engineering					x																		
16	Electronics & Instrumentation Engineering																			x				
17	Electronics Engineering			x																				
18	Engineering Physics	x			x	x		x					x				x			x				
19	Engineering Science							x																
20	Environmental Engineering																			x				
21	Industrial Engineering											x												
22	Instrumentation Engineering											x												
23	Manufacturing Science and Engineering											x												
24	Materials Science and Engineering						x				x													
25	Materials Science and Metallurgical Engineering							x																
26	Mathematics and Computing				x	x		x																
27	Mechanical Engineering	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
28	Metallurgical & Materials Engineering		x									x	x				x							
29	Metallurgical Engineering			x																				
30	Metallurgical Engineering & Materials Science	x							x															
31	Mineral Engineering																			x				
32	Mining Engineering			AR								AR								AR				
33	Mining Machinery Engineering																			AR				

IITs

		B	BBS	BHU	D	G	GN	H	I	J	K	KGP	M	MANDI	PKD	P	R	RPR	TP	ISM	GOA	BH	JM	DWD
34	Naval Architecture & Ocean Engineering												x											
35	Ocean Engineering & Naval Architecture											x												
36	Petroleum Engineering																			AR				
37	Pharmaceutical Engineering & Technology			x																				
38	Polymer Science and Engineering																x							
39	Production and Industrial Engineering				x												x							
40	Textile Technology				x																			
	B.S. (4 Years)																							
41	Chemistry	x									x													
42	Earth Sciences										x													
43	Economics	x									x													
44	Mathematics and Scientific Computing										x													
45	Physics										x													
	B. Arch. (5 Years)																							
46	Architecture											x					x							
	B.Tech.-M.Tech. Dual Degree (5 Years)																							
47	Aerospace Engineering											x	x											
48	Agriculture and Food Engineering with M.Tech in any of the listed specialization											x												
49	Biochemical Engineering & Biotechnology				x																			
50	Biochemical Engineering with M.Tech. in Biochemical Engg & Biotechnology			x																				
51	Bioengineering with M.Tech. in Biomedical Technology			x																				
52	Biological Engineering												x											
53	Biotechnology & Biochemical Engineering											x												
54	Ceramic Engineering			x																				
55	Chemical Engineering				x							x	x											
56	Civil Engineering			x									x											
57	Civil Engineering with M. Tech. in any of the listed specialization											x												
58	Civil Engineering with M. Tech. in Environmental Engineering		x																					
59	Civil Engineering with M. Tech. in Structural Engineering		x																					
60	Civil Engineering and M. Tech. in Transportation Engineering		x																					

IITs

		B	BBS	BHU	D	G	GN	H	I	J	K	KGP	M	MANDI	PKD	P	R	RPR	TP	ISM	GOA	BH	JM	DWD
61	Computer Science & Engineering		x	x	x							x	x							x				
62	Electrical Engineering												x											
63	Electrical Engineering with M. Tech. in any of the listed specializations											x												
64	Electrical Engineering with M. Tech. in Communications and Signal Processing	x																						
65	Electrical Engineering with M. Tech. in Microelectronics	x																						
66	Electrical Engineering with M.Tech. in Power Electronics		x	x																				
67	Electronics & Electrical Communication Engineering with M. Tech. in any of the listed specializations											x												
68	Energy Engineering with M.Tech in Energy Systems Engineering	x																						
69	Engineering Design												x											
70	Engineering Physics			x																				
71	Industrial Chemistry			x																				
72	Industrial & Systems Engineering with M. Tech. in Industrial & Engineering and Management											x												
73	Manufacturing Science & Engineering with M. Tech. in Industrial Engineering											x												
74	Material Science & Technology			x																				
75	Mathematics & Computing			x	x																			
76	Mechanical Engineering			x									x					x						
77	Mechanical Engineering and Mechanical System Design		x																					
78	Mechanical Engineering and M.Tech in Thermal Science and Engineering		x																					
79	Mechanical Engineering with M. Tech. in any of the listed specialization											**x**												
80	Mechanical Engineering with M. Tech. in Computer Integrated Manufacturing	x																						
81	Mechanical Engineering with M. Tech. in Manufacturing Engineering		x																					
82	Metallurgical & Materials Engineering											x	x											
83	Metallurgical Engineering			x																				

IITs

		B	BBS	BHU	D	G	GN	H	I	J	K	KGP	M	MANDI	PKD	P	R	RPR	TP	ISM	GOA	BH	JM	DWD
84	Metallurgical Engineering & Materials Science with M. Tech. in Metallurgical Process Engineering	x																						
85	Metallurgical & Materials Engineering and M.Tech. in Material Science & Engineering		x																					
86	Metallurgical Engineering & Materials Science with M. Tech. in Ceramics & Composites	x																						
87	Mining Engineering			AR								AR												
88	Mining Engineering with M.Tech in Safety Engineering											AR												
89	Naval Architecture & Ocean Engineering												x											
90	Ocean Engineering & Naval Architecture											x												
91	Pharmaceutical Engineering & Technology			x																				
92	Engineering Product Design and Manufacturing with M. Tech in Design and Quality Engineering											x												
	B.S.-M.S. Dual Degree (5 Years)																							
93	Biological Sciences												x											
94	Physics												x											
	Integrated M.Tech. (5 Years)																							
95	Applied Geology																			AR				
96	Applied Geophysics																			AR				
97	Geological Technology																x							
98	Geophysical Technology																x							
99	Mathematics & Computing																			x				
	Integrated M.Sc. (5 Years)																							
100	Applied Geology											AR												
101	Applied Mathematics																x							
102	Chemistry											x					x							
103	Economics											x												
104	Exploration Geophysics											AR												
105	Mathematics and Computing											x												
106	Physics											x					x							

NB. 1) AR: These courses have additional requirements.
2) At IIT Kharagpur, B.Tech. degrees are B.Tech.(Hons).

Annexure-IV: IMPORTANT DATES

No.	Activity	Day, Date and TIME (IST)
1.	JEE (Main) 2018 [Offline exam]	SUN, 08-04-2018
2.	JEE (Main) 2018 [Computer Based Examination]	SUN, 15-04-2018 MON, 16-04-2018
3.	Declaration of results of JEE (Main) 2018	MON, 30-04-2018
4.	Registration for JEE (Advanced) 2018	WED, 02-05-2018 to MON 07-05-2018
5.	Last date for fee payment of registered candidates	TUE, 08-05-2018
6.	Admit card available for downloading	MON, 14-05-2018 to SUN, 20-05-2018
7.	JEE (Advanced) 2018 examination	SUN, 20-05-2018
8.	Copy of candidate responses to be sent to the candidates	TUE, 22-05-2018, 10 AM to FRI, 25-05-2018, 05 PM
9.	Online display of answer keys	TUE, 29-05-2018, 10 AM
10.	Feedback and comments on answer keys from the candidates	TUE, 29-05-2018, 10 AM to WED, 30-05-2018, 05 PM
11.	Online declaration of results of JEE (advanced)2018	SUN, 10-06-2018, 10 AM
12.	Online registration for Architecture Aptitude Test	SUN, 10-06-2018, 10 AM to MON 11-06-2018, 05 PM
13.	Architecture Aptitude Test (AAT)	THU, 14-06-2018
14.	Declaration of results of AAT	MON, 18-06-2018, 05 PM
15.	Seat Allotment	TUE, 19-06-2018 to SUN, 15-07-2018

Annexure-V: CONTACT DETAILS OF ZONE-WISE IITS

Zone Wise Institutes	Address for Correspondence	Phone Number and Email
South IIT Madras* IIT Hyderabad IIT Palakkad IIT Tirupati	Chairman JEE (Advanced) 2018 IIT Madras Chennai - 600036	Phone: +91 44 22578220 Fax: +91 44 22578224 E-mail: jeeadv@iitm.ac.in
West IIT Bombay* IIT Gandhinagar IIT Goa IIT Dharwad	Chairman JEE (Advanced) 2018 IIT Bombay, Powai Mumbai - 400076	Phone: +91 22 25769093 Fax: +91 22 25720305 E-mail: jeeadv@iitb.ac.in
North-Central IIT Delhi* IIT Jodhpur IIT Jammu	Chairman, JEE (Advanced) 2018 IIT Delhi, Hauz Khas New Delhi - 110016	Phone: +91 11 26591785 Fax: +91 11 26581067 E-mail: jeeadv@admin.iitd.ac.in
North-East IIT Guwahati* IIT Patna	Chairman JEE (Advanced) 2018 IIT Guwahati Guwahati - 781039	Phone: +91 361 2692795 Fax: +91 361 2582180 E-mail: jee@iitg.ac.in
Central IIT Kanpur* IIT Indore IIT (BHU)	Organizing Chairman JEE (Advanced) 2018 IIT Kanpur Kanpur - 208 016	Phone: +91 512 2597325 Fax: +91 512 2590103 E-mail: jeeadv@iitk.ac.in
East IIT Kharagpur* IIT Bhubaneswar IIT (ISM) IIT Bhilai	Chairman JEE (Advanced) 2018 IIT Kharagpur Kharagpur - 721302	Phone: +91 3222 282102 Fax: +91 3222 278242 E-mail: jeeadv@iitkgp.ac.in
North IIT Roorkee* IIT Mandi IIT Ropar	Chairman JEE (Advanced) 2018 IIT Roorkee Roorkee - 247667	Phone: +91 1332 284272 Fax: +91 1332 285346 E-mail: jeech@iitr.ac.in

*** Zonal IIT**