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**YEARS**  
OF EXCELLENCE

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& COACHING CENTERS  
IN 23 STATES WITH  
6 LAKH+ STUDENTS



**NARAYANA**  
**IIT-JEE / NEET / FOUNDATIONS**  
(A Unit of NSPIRA Management Services Pvt. Ltd.)



**JEE'S** SECRET  
Presented by **NARAYANA**

# Estimated Rank in JEE-Main 2022 and Predict Cut Off Marks

## 1 Estimate Rank in JEE-Main 2022 2 and Predict Cut Off Marks

S.No.	JEE Main Rank	JEE Main Marks (out of 300)
1.	1-10	300-295
2.	11-20	294-288
3.	22-44	285-281
4.	66-108	280-269
5.	109-520	267-249
6.	543-138	2247-231
7.	1420-2796	229-214
8.	2861-4665	212-200
9.	4830-6664	199-189
10.	715210746	188-175
11.	11018-16163	174-160
12.	16495-21145	159-149
13.	22238-32826	148-132
14.	33636-43174	131-120
15.	44115-54293	119-110
15.	55269-65758	109-102
16.	66999-76260	101-95
17.	78111-87219	94-89
18.	90144-109329	88-79
19.	92300-169540	87-66
20.	173230-326513	63-44
21.	3340780-1025019	42-1



## Cut off Marks for JEE 2022 (Category-wise)

### JEE Main 2022 Expected Cut-off

Along with the JEE Main results the NTA will also release the JEE Main 2022 cut-off. The anticipated cut-off for JEE Main 2022 applicants is listed here so that you may have an idea of the percentile score needed to be eligible for JEE Advanced 2022. The following table mentions the expected cut-off of JEE Main 2022.

Category	Cut-off (Percentile Score)
UR	88
EWS	68
OBC-NCL	70
SC	48
ST	38

Remember to do your research on the opening and closing ranks of colleges in the past years. Also, find out as much as you can about the quality of education imparted in the universities you are interested in. The right information will help you avoid delays and confusion. You can explore our website to get all verified and authentic information related to the JEE Main exam. Here, you can also find the opening and closing ranks of various top-ranked universities/institutes in India.

Now that you are well acquainted with the JEE Main counseling schedule and process, you can go about it with confidence.

Wish you a prospering career in engineering.

# Details of JEE-Main Counseling 2022

## List of Institutes

The table below shows the number of institutes that will participate in the JEE Main counseling 2022. It is important to note that these institutes will accept enrollment in their undergraduate programs through JEE results.

Institutes	Number of Institutes
National Institute of Technology	31
Indian Institute of Information Technology	25
Government Funded Technical Institutes	28

## NITs

S.No.	Campus	No. of Seats	Estd	NIT Rank 2021	NIT Rank 2020	NIT Rank 2019
1.	NIT Delhi (NITD),	227	2010	–	–	–
2.	NIT Trichy (NITT),	1038	1964	9	9	10
3.	NIT Surathkal (NITK),	926	1960	10	13	21
4.	NIT Rourkela (NITRKL),	1234	1961	20	16	16
5.	NIT Warangal (NITW),	989	1959	23	19	21
6.	NIT Calicut (NITC),	1244	1961	25	23	28
7.	NIT Durgapur (NITDGP),	909	1960	29	47	46
8.	NIT Nagpur (VNIT),	933	1960	30	27	31
9.	NIT Jaipur (MNIT),	888	1963	37	35	53
10.	NIT Allahabad (MNNIT),	1074	1961	42	48	42
11.	NIT Kurukshetra (NITKKR),	1147	1963	44	40	41
12.	NIT Surat (SVNIT),	1091	1961	47	54	58
13.	NIT Silchar (NITS),	884	1967	48	46	51
14.	NIT Jalandhar (NITJ),	1117	1987	49	–	–
15.	NIT Meghalaya (NITM),	165	2010	59	61	67
16.	NIT Bhopal (MANIT),	1203	1960	60	65	62
17.	NIT Raipur (NITRR),	1158	1956	64	–	74
18.	NIT Srinagar (NITSRI),	899	1960	69	–	–
19.	NIT Patna (NITP),	806	1886	72	72	–
20.	NIT Goa (NITG),	188	2010	–	–	–
21.	NIT Jamshedpur (NITJSR),	751	1960	–	–	–
22.	NIT Agartala (NITA),	1084	1965	–	75	70
23.	NIT Hamirpur (NITH),	944	1986	–	–	60
24.	NIT Manipur (NITMN),	226	2010	158	148	–
25.	NIT Puducherry (NITPY),	840	2010	–	–	–
26.	NIT Arunachal Pradesh (NITAP),	309	2010	–	–	–
27.	NIT Uttarakhand (NITUK),	180	2010	–	–	–
28.	NIT Mizoram (NITMZ),	190	2010	–	–	–
29.	NIT Nagaland (NITN),	198	2010	–	–	–
30.	NIT Sikkim (NITSKM),	160	2010	–	–	–
31.	NIT Andhra Pradesh (NITANP),	750	2015	–	–	–

Source: MHRD (NIRF Ranking)

Note: While every care has been taken to ensure the accuracy of the above data, Narayana Institutions does not accept responsibility for any inadvertent errors published. They may be brought to our attention.

## Fee Details of JEE Main Counseling 2022

The table below presents the complete fees details of the JEE Main 2022 counseling.

Category	Amount
SC/ST/ST-PwD/SC-PwD/OBC-NCL-PwD/GEN-PwD	Rs 20,000
Candidates belonging to other categories	Rs 45,000

### A. JEE Counseling Process Progression Overview

First, let's look at a few facts about the counseling process.

The counseling process for JEE Main is of 3 types viz. JoSAA, CSAB SFTI, and CSAB NEUT.

- CSAB NEUT – It is the counseling process for supernumerary seats in North East and Union Territories.
- CSAB SFTI – It is a distinct counseling process for the 17 SFTIs, conducted by the Central Seat Allocation Board.
- 25 IIITs, 31 NITs, and 28 Centrally Funded Technical Institutes (CFTIs) participate in the JEE Main counseling.

JoSAA will Organize The JEE Main Counseling in 2022, which will be in Online Mode.

Before JEE Main seat allotment begins, there will be two mock rounds. These mock rounds are to help candidates know about the seats in colleges they secure based on their choices. After the mock rounds, 6 main rounds of seat allotment will begin.

**NOTE:** After seat allotment, the candidates will have to report to the allotted college with the required documents for further procedures.



## B. Sequential Overview of All the Counseling Steps

### STEP I: Online Registration

A candidate needs to enroll with his or her roll number and password to participate in the online counseling process.

The steps for JEE Main counseling registration online are as follows.

- On the official website of JoSAA, click on the link to register.
- Enter your JEE Main roll number and password and log in.
- Read all instructions clearly and click on "I Agree".
- Verify all details you have furnished and click "Confirm resubmission."

### STEP II: Online Choice Filling and Locking

In this step of JEE Main counseling 2022, candidates will select and lock their choices by following the order of their preferred B. Tech program.

### STEP III: Allotment of Seat

Based on a candidate's merit, available seats, and preference entered, the candidate will be allotted seats. After the JEE Main counseling result of 1st round is revealed, one needs to proceed to the next step.

### STEP IV: Seat Acceptance and Payment of Fee

After the seat is allotted, candidates will have the option to choose from the following.

- **Freeze:** In case a candidate is satisfied with his/her allotted seat and doesn't want to look for any other options and participate in subsequent rounds of JEE Main counseling 2022, this is the option he/she needs to choose.
- **Float:** If a candidate wishes to keep his/her seat while also looking for a better option to upgrade his/her seats by participating in subsequent rounds, he/she must choose this option.
- **Slide:** If a candidate accepts the seat of a certain institute allotted but wishes to upgrade to another course within the same institute, he/she must choose this option.
- **Withdraw:** When a candidate wants to give up a seat that he/she has already accepted, it's possible to do so by exercising this option.

### STEP V: Document Verification and Final Reporting to the Allotted Institute

In order to complete the seat allocation procedure, a candidate must have his or her documentation validated. The candidate must show up at the applied institute and pay all fees after the verification procedure.

### Documents Required

The following is the list of the documents that are required for the document verification steps of the JEE Main counseling.

- JEE Main seat allotment letter issued by JoSAA.
- Three passport-size photographs (same as the uploaded photograph during registration).
- A government-issued photo identity card (aadhar card, voter ID card, driving license)
- Proof of fee payment for JEE Main seat acceptance.
- Date of birth proof.
- JEE Main Admit Card 2022.
- Class 12 Mark sheet.
- JEE Main 2022 Score Card.
- Category certificate

## C. Other forms of JEE Main counseling: CSAB NEUT and CSAB SFTI

### CSAB NEUT Counseling

- It is conducted as a part of the JEE main counseling process to allocate supernumerary seats in North East and Union Territories.
- The process would be organized by the Central Seat Allocation Board (CSAB).

### CSAB SFTI Counseling

- For allocation of seats in Self Financing Technical Institutes.
- The number of SFTIs participating in the JEE Main 2022 counseling session is 17.
- Seats are allocated strictly based on the order of preference as opted by the candidate and on JEE Main All India Rank.

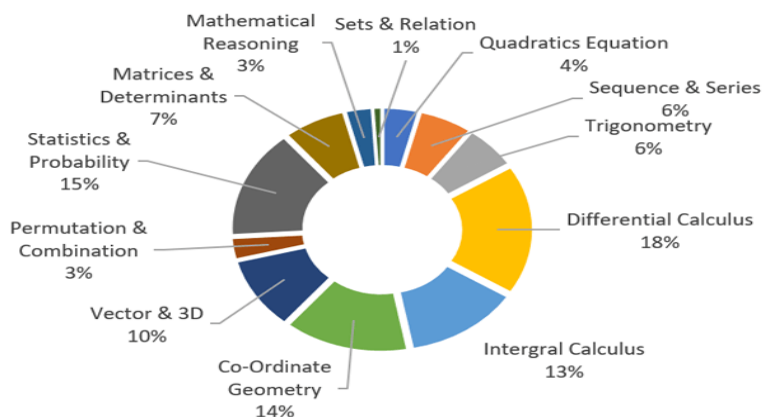
## JEE Main Counseling 2022 Seat Matrix

The following table provides a JEE Main Counseling 2022 Seat Matrix to help students understand the seat availability in JEE Main counseling.

Category	IITS	NITS	IIITS	GFTIS	Total seats
Open	6260	9147	2441	2906	20754
Open-PWD	336	467	116	155	1074
EWS	1526	2359	548	564	4997
EWS-PWD	75	137	26	23	261
SC	2304	3341	876	809	7330
SC-PWD	125	189	43	44	401
ST	1161	2043	438	485	4127
ST-PWD	61	104	16	20	201
OBC NCL	4165	5894	1561	1028	12648
OBC-NCL-PWD	219	316	80	45	660
Total Seats	16232	23997	6146	6078	52453

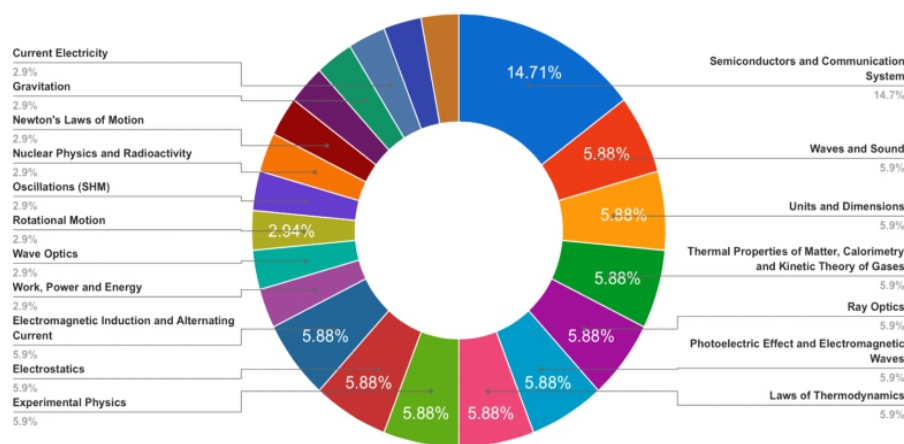
## Chapterwise weightage (Maths) in JEE-Main

**Mathematics Chapter wise Weightage in JEE Main**



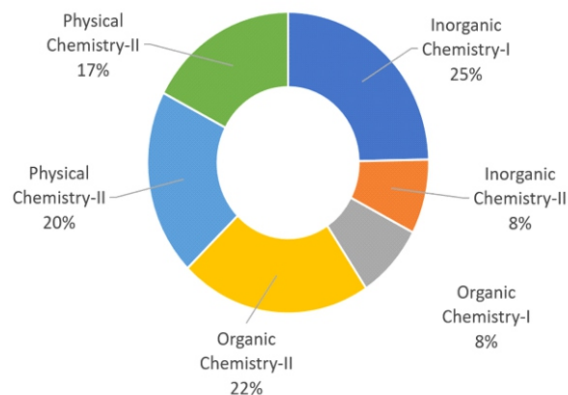
## Chapterwise Weightage (Physics) in JEE-Main

**Weightage of chapters (Physics)**



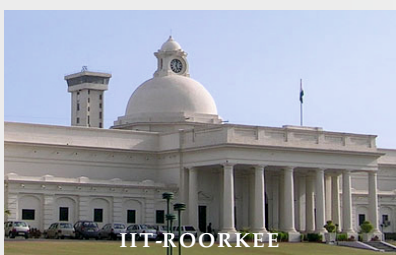
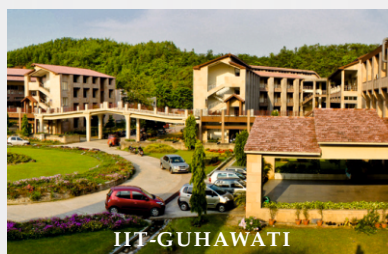
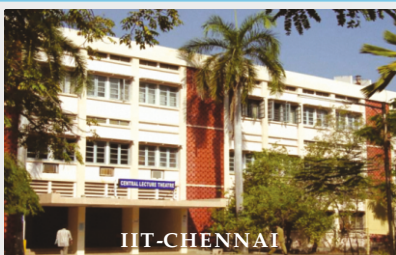
## Chapterwise Weightage (Chemistry) in JEE-Main

**Chemistry Chapter wise Weightage in JEE Main**



# JEE Advanced

## An Overview



## JEE (Advanced)

Admission into various undergraduate programmes across IITs is through the Joint Entrance Examination (Advanced). 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, Architecture, or Pharmaceuticals.

An interesting feature of the JEE Advanced exam is related to its marking scheme – as it has the concept of full, partial and zero marks. For example, if a candidate attempts a question with multiple correct answer, the candidate will be awarded different marks depending on whether the candidate gets all or a few options right, or doesn't attempt at all.

### **Date of Examination :**

Normally JEE (Advanced) held in the month of May but due to pandemic JEE (Advanced) 2022 will be held in August 2022.

### **Eligibility for JEE (Advanced) :**

Candidates who wish to write JEE (Advanced) must write Paper of JEE (Main) in the month of Feb/March/April/May. Only top 2,50,000 (or just above) candidates (including all categories) who qualify JEE (Main) will be eligible to appear for JEE (Advanced).

## JEE Advanced Exam Pattern

Particulars	Details
<i>Mode of examination</i>	<i>Computer-based examination</i>
<i>Medium of examination</i>	<i>English and Hindi</i>
<i>Number of Papers</i>	<i>The exam will have two compulsory papers- Paper 1 and Paper 2</i>
<i>Total time duration</i>	<i>3 hours for each paper (4 hours for PwD candidates)</i>
<i>Number of sections</i>	<i>Both the papers 1 &amp; 2 will have 3 sections in each subject.</i> <ul style="list-style-type: none"> <li>• Physics</li> <li>• Chemistry</li> <li>• Mathematics</li> </ul>
<i>Marking Scheme</i>	<i>The exam has a concept of full, partial, zero (unattempted) marks and negative marks</i>



## IITs

S.No.	Campus	B.Tech Seats	Estd	NIRF Rank 2021	NIRF Rank 2020	NIRF Rank 2019
1	IIT Madras	1133	1959	1	1	1
2	IIT Delhi	1209	1961	2	2	3
3	IIT Bombay	1360	1958	3	3	4
4	IIT Kanpur	1210	1959	4	4	6
5	IIT Kharagpur	1869	1951	5	5	5
6	IIT Roorkee	1353	1847	6	6	8
7	IIT Guwahati	922	1994	7	7	9
8	IIT Hyderabad	470	2008	8	8	22
9	IIT (ISM) Dhanbad	1125	1926	11	12	25
10	IIT Indore	360	2009	13	10	-
11	IIT (BHU) Varanasi	1589	1919	14	11	28
12	IIT Ropar	370	2008	19	25	29
13	IIT Patna	547	2008	21	26	58
14	IIT Gandhinagar	250	2008	22	24	51
15	IIT Dharwad	185	2016	23	-	-
16	IIT Bhubaneswar	475	2008	28	22	46
17	IIT Goa	157	2016	32	-	-
18	IIT Mandi	329	2009	41	31	44
19	IIT Jodhpur	490	2008	43	53	-
20	IIT Jammu	240	2016	69	-	-
21	IIT Tirupati	237	2015	-	-	-
22	IIT Bhilai	183	2016	-	-	-
23	IIT Palakkad	169	2015	-	-	-

Source: MHRD (NIRF Ranking)

# JEE Advanced 2022 Counseling Highlights

## JEE Advanced 2022 Counselling Highlights

Conducting Body	Joint Seat Allocation Authority (JoSAA)
Mode	Online
Website	josaa.nic.in
Procedure	Registration, Choice Filling, Choice Locking, Validation, Seat Allotment and Reporting to the Allotted Colleges
Total Participating Colleges	23 IITs (Indian Institute of Technology) out of 107 Total Participating Institutes at JoSAA.

Candidates applying for JoSAA Counselling for admission to IITs have to report at the allotted center for document verification. There are 18 reporting centers for IITs whereas 45 reporting centers are available for NITs, IIITs, and Other GFTIs. Eligible candidates can withdraw their seats in any of the counseling rounds except the last round. The introduction of the seat withdrawal option by the JoSAA officials will be significant in the reduction of the number of unfilled seats at IITs, NITs, IIITs and GFTIs.

## Eligibility for JEE Advanced 2022 Counselling

Candidates who qualify JEE Advanced will be allowed to participate in JEE Advanced 2022 Counselling for admission to various UG courses offered by IITs. However, these candidates should fulfill the following eligibility criteria to take part in the counseling and seat allotment process.

1. Candidates should have obtained a rank in the Common Rank List in JEE Advanced.
2. In the case of percentile, the candidate should be among the top 2.5 lakh students in JEE Main 2022.
3. The aggregate marks obtained in Physics, Chemistry, Mathematics, and Language (Language paper in which candidates have scored higher marks will be taken into consideration) will be used to calculate the aggregate in the qualifying examination. If any of these are not evaluated during the final year, (for eg. Three-year diploma courses) the marks of the previous year will be taken into consideration.
4. Candidates who have failed in one or more than one subject in the qualifying exam should appear for the exam in 2022 and clear it in this attempt.
5. In cases where the qualifying board offers only letter grades, the candidates are required to procure a letter from the board indicating the aggregate marks of the candidate. Otherwise, the decision in such matters will be taken by the Joint Implementation Committee of JEE Advanced 2022. The decision of the committee would be final and no request for any review would be considered.
6. The marks of Class 12th would be considered only, in case, the board provides the marks for both Class 11th and 12th in the qualifying examination. If the board provides only the aggregate marks for qualifying examination, then the aggregate marks will be considered for evaluation.

**Note:** Candidates including foreign nationals will have to abide by the above-mentioned criteria

# JEE Advanced 2022 Counseling Process

## JEE Advanced 2022 Counselling Process

JEE Advanced 2022 counselling process can be broadly divided into the following steps:

- Registration for JEE Advanced 2022 Counselling
- Choice Filling and Locking
- Allotment of Seats
- Reporting to Allotted Colleges
- Granting Provisional Admission to candidates

Candidates should go through all the steps of JEE Advanced 2022 Counselling process, discussed below in detail.

### Step 1: JoSAA Counselling Registration

Candidates are first required to register online for JEE Advanced 2021 Counselling. Candidates will have to enter their JEE Main Roll Number and JEE Advanced Password to login and reconfirm the previously filled details.

### Step 2: Filling-in and Locking of Choices

Candidates will have to log in and fill up their choices as per branch, course and institute preference. They are permitted to change, edit, delete or add new choices until finalizing their choices. Candidates must lock their final choices before the due dates failing which leads to automated locking of choices. Applicants can select a maximum of 50 choices during the online locking of choices. They are advised to take a print out of their finally submitted choices.

#### Note:

#### 1. Fitness Criteria required to be fulfilled by students for Mining and Petroleum Engineering:

Candidates planning to apply for Mining and Mining Machinery Engineering and related courses must fulfill additional fitness criteria as mentioned below:

- These students should be free from color blindness and the standard of visual acuity with or without glasses should be as per DGMS circular (the distant vision of the eye with or without glasses should be not less than 6/6 and 6/9 for a worse eye)
- Candidates applying for Petroleum engineering and related courses as well as those seeking admission in M.Sc. / M. Tech. in Applied Geology must be free from the clause of color blindness also.

#### Special Eligibility for Female candidates in Mining Engineering Courses

- ISM Dhanbad does not admit female students in Mining Engineering, Mining Machinery Engineering and any of the related courses.
- Female candidates are, however, eligible for admission in Mining Engineering at IIT Kharagpur and IIT (BHU) Varanasi, provided they fulfill the special medical requirements.
- The female candidates as per Section 46 (1) of the Mines Act, 1952, are not permitted to work in mines below ground. They are allowed to work only between 6 AM to 7 PM on mines above ground level.

#### Admission to Architecture Courses in IITs

- Candidates seeking admission in Architecture courses at the IITs should appear and pass the Architecture Aptitude Test (AAT) conducted at the seven Zonal IITs.
- Candidates are required to choose B. Arch. at IIT Kharagpur or IIT Roorkee during online choice filling in counseling and appear for AAT 2021 also. JEE Advanced 2022 Admit Card issued would be required to appear for Architecture Aptitude Test.
- Candidates would be considered for admission, solely on the basis of JEE Advanced AIR and category rank of the candidate.

### Step 3: JEE Advanced Online Seat Allotment

- JoSAA will conduct two mock allotments to indicate the candidates about their probable allotment as per their current choices.
- Candidates will be able to alter their choices after the mock allotment.
- Allotment of seats will be done as per the merit, choices preferred category and seat availability.
- JEE Advanced 2022 seat allotment would be conducted on the basis of All India Rank (AIR) secured by the candidates in JEE Advanced and the final choices filled by them after mock allotment.
- After each allotment, the candidates will have to option what they want to do with the allotted seat- float, freeze and slide.

#### *How to check the status for seat allotment?*

The candidates can follow the steps mentioned below to check the status of seat allotment during JEE Advanced 2022 Counselling. The opening and closing ranks for all the categories would vary. Hence, the candidates securing higher in their respective categories will be allotted seats accordingly.

- Log in using the Registration No (User ID), JEE Advanced 2022 Roll No and Password to check their seat allotment status.
- Students should check their status of Seat Allotment at the end of every round.
- Allotments might change due to upgradation. Hence, students should pay attention to this.
- The soft copy of the category (SC/ST/OBC-NCL) certificates uploaded at the time of online registration will be scrutinized against originals during seat allocation
- If the certificates uploaded are found to be inappropriate, the student will be treated as General only if their score in the Paper-1 of JEE Main is above the cutoff score for General category.

**Note:** The seat allocation in JEE Advanced 2022 Counselling would be completed within three rounds. All the candidates are therefore advised to check the status after the completion of every round, as there is a possibility that the seats allotted to them are upgraded because other students have either withdrawn from the course or have accepted seats they prefer.

### Step 4: Reporting for JEE Advanced 2022 Seat Allotment

Candidates are required to report to the Zonal IIT after the seats are allotted to them. All the candidates should be present in person for verification of documents and payment of admission fee.

Some of the important points for reporting to allotted centers for taking provisional admission are mentioned below. Candidates who don't report to the Zonal IIT before the stipulated deadline will not be considered for seat allotment and their seats will be automatically forfeited. In case, the applicants are offered an upgradation, they will have to forfeit the seat allotted to them earlier in order to accept the upgraded seat.

- Candidates can pay the fee through any of the acceptable modes such as internet banking, credit card/debit card or payment in the nearest branch
- They need to upload a declaration on acceptance form, after signing it themselves and by their parents. This form states that the student is eligible for admission as per the 'Top 20 Percentile Cut off Marks of their respective Board in their respective categories for the year of the passing of qualifying examination'.
- All the applicants should also upload the scanned copy of their marksheet of 10 + 2.

- Candidates allotted seats in any of the seven rounds should report to the respective institutes on the specified date and time.

### **Step 5: Provisional Admission**

The institutes will issue a final allotment letter and grant provisional admission to candidates after verifying the documents and the fee is paid by the candidate. Candidates who fail to meet any eligibility criteria or are caught providing false information/documents will be debarred from the counselling process and their admission would be immediately deemed canceled.

### ***Documents Required for Provisional Admission***

Students are required to submit original documents along with one attested photocopy during verification for taking provisional admission.

- JEE Advanced 2022 Original Admit Card
- JEE Advanced 2022 Seat Allotment Letter from JOCSAP website

JEE Advanced Application Form

- (duly filled)
- Duly filled medical examination report
- Birth Proof — Class Xth /HSC/Birth Certificate/Any other certificate as proof of data of birth
- Class 12th or Equivalent Examination Mark sheet and Passing Certificate
- Category Certificate (OBC (NCL)/SC/ST/PwD/DS) issued by competent authority as per the format in the JEE Advanced 2022 Brochure
- Criteria for Foreign National students — Attested photocopy of the page in the passport comprising the name, photo and nationality.
- DD towards the registration fee. It would be later adjusted towards the tuition fee, to be paid at the time of admission.

# Detailed Analysis of JEE-ADVANCED 2021 Analysis

## JEE Advanced 2021 Analysis

35410

Total number of qualified boys

6452

Total number of qualified girls

17057

Total number of qualified general (GEN) Candidates

5144

Total number of qualified general (GEN-EWS) Candidates

9150

Total number of qualified (OBC-NCL) Candidates

7747

Total number of qualified (SC) Candidates

2764

Total number of qualified (ST) Candidates

## Cut Off Analysis of JEE-ADVANCED

Type of Rank List	Minimum Percentage of Marks Required in Each Subject	Minimum Percentage of Aggregate Marks
Common Rank List (CRL)	10.0	25.0
General-EWS	9.0	22.5
OBC NCL	9.0	22.5
SC	5.0	12.5
ST	5.0	12.5
CRL-PWD	5.0	12.5
OBC-NCL-PWD	5.0	12.5
SC-PWD	5.0	12.5
ST-PwD	5.0	12.5
Preparatory Course	2.5	6.25

# JEE-ADVANCED

## Analysis of (Chemistry)

Topics	weightage of marks
Inorganic Chemistry-I	11-12%
Chemical Bonding	2-3%
p-block	9-10%
Inorganic Chemistry-II	17-18%
Coordination Compounds	3-4%
d-block & f-block Elements	7-8%
Qualitative Analysis	3-4%
Metallurgy	6-7%
Organic Chemistry-I	3-4%
General Organic Chemistry- II	2-3%
Organic Chemistry-II	32-33%
Aromatic Compounds	6-7%
Carbonyl compounds	9-10%
Organic Reaction Mechanism	14-15%
Stereoisomerism	3-4%
Biomolecules	3-4%
Grignard Reagent, Reduction, Oxidation & Hydrolysis	6-7%
Polymers	4-5%
Physical Chemistry-I	29-30%
Atomic Structure & Nuclear Chemistry	12-13%
Chemical Bonding	3-5%
Chemical Equilibrium	3-4%
Mole Concept	5-6%
Thermodynamics and Thermochemistry	4-5%
Gaseous State	4-5%
Physical Chemistry-II	10-11%
Chemical Kinetics	6-9%
Solution & Colligative Properties	3-4%
Surface Chemistry	3-4%

# JEE-ADVANCED

## Analysis of (Physics)

Topics	Weightage of marks
Electrodynamics	24-25%
Capacitance	6-7%
Electromagnetic Induction	6-7%
Electrostatics	9-10%
Current Electricity	4-5%
Heat & Thermodynamics	17-18%
KTG & Thermodynamics	14-15%
Calorimetry & Thermal Expansion	3-4%
Mechanics	26-27%
Centre of Mass	4-5%
Error in Measurement	4-5%
Gravitation	3-4%
Rigid Body Dynamics	4-5%
Surface Tension	4-5%
Work, Power & Energy	3-4%
Elasticity & Viscosity	3-4%
Projectile Motion	3-4%
Unit & Dimension	4-5%
Modern Physics	11-12%
Modern Physics	6-7%
Nuclear Physics	6-7%
Optics	15-16%
Geometrical Optics & Physical Optics	12-13%
Wave Optics	4-5%
SHM & Waves	12-13%
Sound Waves	3-4%
String Wave	6-7%
SHM	4-5%



# JEE-ADVANCED

## Analysis of (Maths)

Topics	Weightage of marks
Algebra	3-4%
Complex Numbers	5-6%
Coordinate Geometry	13-14%
Circle	10-11%
Ellipse	4-5%
Differential Calculus	15-16%
Functions	5-6%
Application of Derivatives	7-8%
Continuity & Derivability	4-5%
Integral Calculus	17-18%
Definite integration	14-15%
Differential equation	4-5%
Matrix & Determinants	13-14%
Permutation & Combination	5-6%
Probability	6-7%
Quadratic Equation	4-5%
Sequence & Series	3-4%
Trigonometry	9-10%
Solution of Triangle	5-6%
Inverse Trigonometric function	3-4%
Trigonometric Ratio & identities	4-5%
Vector and 3D	12-13%

# JEE-ADVANCED Marks vs Rank (2010-2021)

You can check the detailed analysis of JEE Advanced Marks vs Rank based on 2010 to 2021 data here.

## JEE-Advanced Ranks vs Cutoff %

Rank	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Range	360	396	372	360	366	360	504	360	300	408	480	489
10	89.70	81.06	81.00	86.11	89.60	81.11	83.92	86.94	85.83	88.48	85.42	81.39
100	79.20	71.00	72.85	75.83	83.30	68.61	69.84	77.50	76.39	78.68	79.79	70.75
500	65.80	59.34	61.02	64.72	76.50	54.57	60.32	68.61	66.67	69.36	72.08	62.16
1000	58.90	53.03	55.38	59.17	72.10	49.46	56.75	63.33	61.67	69.36	72.08	62.16
2000	51.70	46.46	50.00	53.33	66.70	43.55	49.21	57.22	55.56	58.33	62.50	52.97
3000	49.40	42.42	46.77	49.17	63.10	42.74	45.44	53.66	51.94	54.41	59.17	49.69
4000	43.10	39.39	44.09	46.39	59.80	37.90	42.66	51.11	49.17	51.72	56.67	47.03
5000	40.03	37.12	41.94	43.89	57.70	36.02	40.48	48.89	47.22	49.51	54.38	44.99
6000	37.80	35.10	40.32	41.94	55.70	34.41	38.69	47.22	45.56	47.55	52.71	53.35
7000	35.80	33.59	38.71	40.28	53.80	33.33	37.10	45.56	43.89	45.83	51.04	41.92
8000	34.40	32.07	37.37	38.61	52.20	31.99	35.91	45.45	42.50	43.38	49.79	40.49
9000	32.50	30.81	36.29	37.22	50.80	30.91	34.52	43.06	41.11	43.14	48.54	39.47
10000	31.40	29.80	35.22	36.11	49.70	29.84	33.33	41.94	40.00	41.91	47.71	38.85
QUAL.%	17.50	25.00	25.00	25.00	34.97	20.16	23.81	35.00	33.88	34.55	47.71	38.85

**Wish you All the Best !**

