

RANKERS STUDY MATERIAL

THE IDEAL CORRESPONDENCE COURSE

One Year Version for JEE Advanced, 2020 (For Students of Class XII / XII Pass)

(Rankers Study Material = Comprehensive Study Material + Computer Based All India Test Series
+ Concept Strengthening Classroom Program (CSCP) of about 42 hours + Phase Tests & Problems Package + myPAT - Online Test Series)

- Comprehensive study material divided into Four Phases
- Deep extensive coverage of theory to clear concepts to further build a solid foundation.
- Extensive coverage of objective as well as subjective problems to ensure pattern proof preparation for JEE Papers.
- Every Phase develops concepts through illustrations and exercises.
- Solved examples are provided to develop problem-solving skills.
- Graded levels of assignments as per the level of difficulty and pattern of JEE.
- Phase Tests (similar to JEE pattern).
- Additional Set of Problems so as to develop problem-solving skills with respect to multi-concept problems.
- Regular feedback to Students in form of performance evaluation.
- Computer Based All India Test Series (AITS) - The Iconic Test Series from FIITJEE which besides developing sound examination temperament, also gives an ideal platform to analyze relative performance among serious aspirants across the nation.
- Dispatch is scheduled so as to give sufficient time to the Students to put his / her efforts to study.
- RSM is now fortified with myPAT - an Online Test Series that helps Students to become proficient in their concepts and helps them with effective test analysis.

FIITJEE Students from Study Material Programs & Test Series Programs excelled in JEE Advanced, 2018 !

All India Test Series				Rankers Study Material							
S.No.	Name	AIR	S.No.	Name	AIR	S.No.	Name	AIR	S.No.	Name	AIR
1.	Lay Jain	9	5.	Ritika Hooda	112	1.	Meenal Parakh	6	5.	Khushi Ketan Kapadia	106
2.	Bhaskar Gupta	30	6.	Samad Koita	131	2.	Karan Agarwalla	21	6.	Lavish Gupta	107
3.	Pulkit Agrawal	58	7.	Shashank Agarwal	155	3.	Siddhant Choudhary	61	7.	Parth Sastry	145
4.	Shrey Bansal	72	8.	Parth Somani	178	4.	Shreyans J Nagori	93	8.	Varun Goyal	146
									9.	Sumanyu Ghoshal	160
									10.	Ritika	163
									11.	Datar Arnhav Abhijit	200

JEE Advanced, 2018 (AIR)	Top 10	Top 50	Top 100	Top 200	Top 500	Top 10000
Number of FIITJEE Students in Common Rank List	2	5	9	20	43	331



myPAT is an Online Platform for Learning through Assessment, Analysis and Identification of Improvement Areas. Powered by Edfora, myPAT enables you to track your progress, giving an in depth analysis and allows you to assess yourself both in Test Mode and Learning Mode. Besides your absolute performance analysis at varying level like subject chapter and concept, you would be able to check your performance in various types of questions as well as level of difficulty of questions.



1. LEARN

Learn important concepts from experts & solved previous year test papers according to your personalised schedule



2. PRACTICE

Practice and master every concept as you graduate from Level 01 to Level 10



3. TEST

Test your preparation by attempting concept, part and full tests of your target exams

4. REVISE

Revise weaker concepts and chapters with instant test results



5. COMMUNITY

Ask questions and connect with other students to gain and share knowledge



6. PROFILE

Follow your favorite people and challenge them on concept, part & full tests to compete together

Students enrolling in Rankers Study Material (One Year Version) for JEE (Main & Advanced), 2020 will have the advantage of availing classroom contact program of about 100 hrs. at all FIITJEE centres on payment of a nominal fee. Since the seats will be limited, selection will be on the basis of performance in AITS Part Test - I to be held in October 2019 and AITS Part Test - II to be held in November 2019 for JEE 2020 aspirants.

Testing pattern of JEE (Main & Advanced) keeps on changing but the key aspect of the test is to judge the student's analytical ability alongwith his / her core knowledge of the subjects.

In the quest for a seat with a good rank in JEE (Advanced) where about 11,000 of the entire science students of the country can be accommodated, only the deserving ones can make to the IITs irrespective of the testing pattern. In order to select the best, the level of difficulty would remain unchanged. Students having sound fundamental knowledge of subject will always outperform the students who are only confining their preparation to pattern rather than understanding the concepts. Since inception, FIITJEE has laid emphasis on making the students imbibe the fundamental concepts of Physics Chemistry & Mathematics and on sharpening their analytical skills and parallel thinking process. At FIITJEE you will find a very powerful system that can help you unfold your full potential systematically. What is required is total dedication and hard work.

TEST CENTRES* for Computer Based All India Test Series (only one centre can be opted)				
Delhi (South)	Bhagalpur	Gwalior	Kota	Roorkee
Delhi (North West)	Bhilai	Haldwani	Lucknow	Rourkela
Delhi (East)	Bhopal	Hisar	Ludhiana	Shaktinagar (NTPC)
Delhi NCR (Faridabad)	Bhubaneswar	Hyderabad	Meerut	Siliguri
Delhi NCR (Ghaziabad)	Bokaro	Indore	Mumbai	Sonipat
Delhi NCR (Gurgaon)	Chandigarh	Jabalpur	Navi Mumbai	Thrissur
Delhi NCR (Noida)	Chennai	Jaipur	Thane	Udaipur
Agartala	Coimbatore	Jammu	Muzaffarpur	Vadodara
Agra	Cuttack	Jamshedpur	Mysore	Varanasi
Ahmedabad	Darbhanga	Jhansi	Nagpur	Vijayawada
Allahabad	Dehradun	Jodhpur	Nashik	Visakhapatnam
Amritsar	Dhanbad	Kanpur	Patna	Wardha
Aurangabad	Durgapur	Karnal	Pune	
Bangalore	Gaya	Kharagpur	Raipur	
Bareilly	Gorakhpur	Kochi	Ranchi	
Bathinda	Guwahati	Kolkata	Rohtak	

* These are the test centres for JEE (Main & Advanced) Test Series only. Concept Strengthening Classroom Program will be held at FIITJEE Centres only. In addition to FIITJEE Study Centres, Ahmedabad, Kota & Rourkela will also be the centres of CSCP.

Note: FIITJEE reserves the right to change / cancel any Test / CSCP Centre without any prior notice.

Rankers Study Material - The Ideal Correspondence Course

Eligibility Criterion

Candidates must have secured minimum 75% marks in (Science + Maths) in Class X OR minimum 75% marks in PCM in Class XII from CBSE, ICSE, Andhra Pradesh, Anglo Indian, Haryana, Maharashtra, Kerala, Telangana, Tamilnadu & West Bengal Boards. Minimum 70% marks in (Science + Maths) in Class X OR minimum 70% marks in PCM in Class XII from other Boards.

Direct Admission to Students having qualified any stage of NTSE, KVPY, Olympiad, Jr. Science Olympiad or JSTSE / SSTSE / MTSE / similar Talent Search Exam conducted by State Govt.

Note: In case of only Grade System in Boards, equivalent Grade corresponding to eligibility criteria will be considered.

Those Students who are not eligible on the basis of marks, but are qualified in any of our Admission Tests / Scholarship Tests are eligible to apply.

Course Fee of Rankers Study Material (One Year Version) for JEE Advanced 2020

Program Code	Books Fee	Computer Based All India Test Series & Concept Strengthening Classroom Program Fee	myPAT Online Test Series* Fee	Total Amount
1290	Rs. 11400	Rs. 8496 (Rs. 7200 + 18% GST)	Rs. 4719 (Rs. 3999 + 18% GST)	Rs. 24615
1297	Rs. 12000	Rs. 8496 (Rs. 7200 + 18% GST)	--	Rs. 20496

***myPAT Package:** Total 17 Tests (10 Full Tests + 7 Part Tests) for JEE Main & Total 17 Tests (10 Full Tests + 7 Part Tests) for JEE Advanced. For details of myPAT please visit www.mypat.in

You will receive the first packet of Books (Phase-I Study Material) in April / May 2019.

Note : **Ex-FIITJEEian** (Students who enrolled for any FIITJEE Program for JEE 2019) will be entitled for 15% concession on Books Fee & Computer based AITS Fee of Rankers Study Material One Year version for JEE Advanced.

How to Enrol

Apply on prescribed Enrolment Form (can be collected from nearest FIITJEE centre or downloaded from www.fitjee-distancelearning.com)

Send your completely filled Enrolment Form through post / courier to

National Admissions Office (NCRP), FIITJEE House, 29-A, Kalu Sarai, Sarvapriya Vihar, New Delhi-110016 along with :

A. Four passport size colour photographs,

B. Photocopy of Class X/ XII Board Exam Mark Sheet

C. Demand Drafts / Pay Orders payable at Delhi in favour of

(i) "Megacosm Cognitions Pvt. Ltd." for **Study Material Fee**

(ii) "FIITJEE Ltd." for **Computer Based All India Test Series + Concept Strengthening Classroom Program Fee**

(iii) "Edfora Infotech Pvt. Ltd." for **myPAT Online Test Series Fee**

You can also submit your completed Enrolment Form in person at the nearest FIITJEE Centre.

You also have an option to enrol online at www.fitjee-distancelearning.com for program code 1297 only.

www.fitjee-distancelearning.com

Scholarship Criterion - Rankers Study Material

Exam Name	Stages Level	Stage I Qualified	Scholarship to be given on enrolling in Rankers Study Material	Stage II Qualified	Scholarship to be given on enrolling in Rankers Study Material	Stage III Qualified	Scholarship to be given on enrolling in Rankers Study Material	Stage V Performance	Scholarship to be given on enrolling in Rankers Study Material
NTSE (Conducted by NCERT)	✓ (Qualified State Level Written Exam)	25% Scholarship on Course Fee. For State Topper - 35% Scholarship on Course Fee	✓ (Qualified National Level Written Exam) - Final Scholar	65% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
JSTSE (Delhi) / SSTSE (Rajasthan) / MTSE (Maharashtra) or similar kind of Talent Search Exam conducted by State Government	✓ (Qualified Written Exam)	25% Scholarship on Course Fee	✓ (Final Interview) - Wherever Applicable	Rank 1 : 50% Scholarship on Course Fee Rank 2 to 20 : 35% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
KVPY (Conducted by Department of Science & Technology)	✓ (Qualified Written Test & Called for Interview)	35% Scholarship on Course Fee	✓ (Selected after Interview)	50% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
National Olympiads (Organised by HBCSE)	✓ (Qualified National Standard Examination in Physics / Chemistry / Astronomy or Regional Mathematical Olympiad for Stage-II Level)	50% Scholarship on Course Fee	✓ (Qualified Indian National Olympiads in Mathematics / Physics / Chemistry / Astronomy for Stage-III Level)	65% Scholarship on Course Fee	✓ (Selection in Stage-III i.e. Orientation Cum Selection Camp for Stage-IV Level i.e. Pre Departure Training Camp for International Physics / Chemistry / Mathematical / Astronomy & Astrophysics Olympiad)	Amount to be paid by the Student as Enrollment Fee = Rs. 1000 (inclusive of GST), Student will also get GMP & RTPF free of cost	✓ (Winning Medal for the Country in International Physics / Chemistry / Mathematical / Astronomy & Astrophysics Olympiad)	For Gold Medalist, Enrollment Fee = Rs. 200 (inclusive of GST) For Silver Medalist, Enrollment Fee = Rs. 400 (inclusive of GST) For Bronze Medalist, Enrollment Fee = Rs. 800 (inclusive of GST), Student will also get GMP & RTPF free of cost	
Junior Science Olympiad (Organized by HBCSE)	✓ (Qualified National Standard Examination in Junior Science for Stage- II Level)	50% Scholarship on Course Fee	✓ (Qualified Indian National Junior Science Olympiad for Stage-III Level)	65% Scholarship on Course Fee	✓ (Selection in Stage-III i.e. Orientation Cum Selection Camp in Jr. Science for Stage-IV Level i.e. Pre Departure Training Camp for International Jr. Science Olympiad)	Amount to be paid by the Student as Enrollment Fee = Rs. 1300 (inclusive of GST), Student will also get GMP & RTPF free of cost	✓ (Winning Medal for the Country in International Jr. Science Olympiad)	Student will also get GMP & RTPF free of cost	
Selected in JEE Advanced (for XII Pass Students) and reappearing in next year's JEE Advanced for Rank improvement	All India Rank upto 1000 - 50% scholarship on Course Fee ; All India Rank 1001 upto last Rank called for counselling - 35 % scholarship on Course Fee. Note: Scholarship valid only on submission of a photocopy of selection letter with your JEE Advanced rank attested by IIT Professor / Principal of the school last attended / Gazetted Officer. However the scholarship amount will become payable only after submitting the copy of next year's JEE Advanced, admit card.								
On the basis of marks obtained in X / XII Boards	Students who have secured a minimum of 90% in aggregate & 95% in (Science + Maths) / PCM in X or XII board exams of CBSE, ICSE, Andhra Pradesh, Anglo Indian, Haryana, Kerala, Maharashtra, Telangana, Tamilnadu & West Bengal boards OR a minimum of 90% in (Science + Maths) / PCM & 85% in aggregate from any other board.	25% Scholarship on Course Fee	Students who have secured a minimum of 93 % in aggregate & 97 % in (Science + Maths) / PCM in X or XII board exams of CBSE, ICSE, Andhra Pradesh, Anglo Indian, Haryana, Kerala, Maharashtra, Telangana, Tamilnadu & West Bengal boards OR a minimum of 93 % in (Science + Maths) / PCM & 88 % in aggregate from any other board.	50% Scholarship on Course Fee	Students who have secured a minimum of 95% in aggregate & 99% in (Science + Maths) / PCM in X or XII board exams of CBSE, ICSE, Andhra Pradesh, Anglo Indian, Haryana, Kerala, Maharashtra, Telangana, Tamilnadu & West Bengal boards OR a minimum of 95% in (Science + Maths) / PCM & 90% in aggregate from any other board.	75% Scholarship on Course Fee	N/A		
In case of only Grades being given in Board Results and where marks are not mentioned	A1 in Science, Math & any 2 other subjects and overall CGPA 9.80 or A 1 in Physics, Chemistry, Maths and any 1 other subject and overall CGPA 9.80 or above.	25% Scholarship on Course Fee	A1 in Science, Math & any 3 other subjects and overall CGPA 10.00 or A1 in Physics, Chemistry, Maths and any 2 other subjects and overall CGPA 10.00.	50% Scholarship on Course Fee	Note : Students of IGCSE (International General Certificate of Secondary Education) and IB (International Baccalaureate) program are also eligible for the scholarship, the criterion will be equivalent to that of CBSE.				

The upgraded grades (A1* or A1**) will not be considered for scholarships.

Note 1 : No Scholarship will be given on myPAT Online Test Series Fee. Scholarships will be applicable only on Books Fee & Computer Based AITS Fee.

Note 2 : Scholarships on Scholastic achievement are applicable for those Students qualifying in the general category only.

Note 3 : All the above scholarships are valid only on submission of copy of Marksheet / Certificates / letters of selection within 30 days of receiving from the concerned authorities, verified & attested by the Principal of the school last attended or presently studying / Gazetted Officer.

Note 4 : If a Student is eligible for two or more than two scholarships, he can avail only one scholarship whichever is higher.

Tentative Schedule* of Computer Based One Year All India Test Series for JEE Advanced 2020

S. No.	AIMS TEST	TEST DATE	TEST TIMING
1	PART TEST - I (Main)	20th October 2019	9:30 am to 12:30 pm
2	PART TEST - I (Advanced)	3rd November 2019	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
3	Test Analysis & Concept Strengthening Classroom Sessions on 8th November 2019 at FIITJEE Study Centre		
4	PART TEST - II (Main)	10th November 2019	9:30 am to 12:30 pm
5	PART TEST - II (Advanced)	17th November 2019	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
6	Test Analysis & Concept Strengthening Classroom Sessions on 22nd November 2019 at FIITJEE Study Centre		
7	PART TEST - III (Main)	8th December 2019	9:30 am to 12:30 pm
8	PART TEST - III (Advanced)	15th December 2019	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
9	Test Analysis & Concept Strengthening Classroom Sessions on 20th December 2019 at FIITJEE Study Centre		
10	FULL TEST - I (Main)	Test Papers to be Downloaded on 19th December 2019 for practicing at home	
11	FULL TEST - I & II (Advanced)		
12	FULL TEST - II (Main)	22nd December 2019	9:30 am to 12:30 pm
13	FULL TEST - III (Main)	29th December 2019	9:30 am to 12:30 pm
14	FULL TEST - IV & V (Main)	Test Papers to be Downloaded on 29th December 2019 for practicing at home	
15	FULL TEST - III & IV (Advanced)		
16	FULL TEST - V (Advanced)	19th January 2020	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
17	Test Analysis & Concept Strengthening Classroom Sessions on 24th January 2020 at FIITJEE Study Centre		
18	OPEN TEST (Advanced)	2nd February 2020	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
19	Test Analysis & Concept Strengthening Classroom Sessions on 7th February 2020 at FIITJEE Study Centre		
20	CONCEPT RECAPITULATION TEST# PAPERS - SET I, II, III & IV (Main)	Test Papers to be Downloaded on 5th February 2020 for practicing at home	
21	OPEN TEST (Main)	9th February 2020	9:30 am to 12:30 pm
22	FULL TEST - VII (Main)	22nd March 2020	9:30 am to 12:30 pm
23	FULL TEST - VIII (Main)	29th March 2020	9:30 am to 12:30 pm
24	CONCEPT RECAPITULATION TEST# PAPERS - SET I, II, III & IV (Advanced)	Test Papers to be Downloaded on 14th April 2020 for practicing at home	
25	FULL TEST - VII & VIII (Advanced)	Test Papers to be Downloaded on 21st April 2020 for practicing at home	
26	FULL TEST - IX (Advanced)	26th April 2020	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
27	Test Analysis & Concept Strengthening Classroom Sessions on 1st May 2020 at FIITJEE Study Centre		
28	FULL TEST - X (Advanced)	3rd May 2020	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
29	Test Analysis & Concept Strengthening Classroom Sessions on 8th May 2020 at FIITJEE Study Centre		
30	FULL TEST - XI (Advanced)	10th May 2020	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
ADVANCED (Paper 1 and Paper 2) will each have three separate sections on Physics, Chemistry & Mathematics. Both papers will be objective type.			

Note: Exam Dates will be confirmed by July 2020.

* The Schedule is based on assumption that the JEE Main would be taking place in 1st /2nd week of January 2021 as well as in April 2021 and the JEE Advanced would be held on 16th May 2021. The Schedule is subject to change and will be as per the official announcement of JEE Main 2021 and JEE Advanced 2021.

Concept Recapitulation Test Papers are Practice Test Papers through which particular concepts are to be revised. These papers are very helpful to revise the topic of Physics, Chemistry & Mathematics without actually revising the entire theory. In these papers, representative problems are there from various concepts of JEE syllabus, through which students can recapitulate entire topics before JEE within short span of time.

Syllabi of Computer Based One Year All India Test Series

PAPER	CHEMISTRY	MATHEMATICS	PHYSICS
Part Test - I			
Main	Atomic Structure, Chemical Kinetics, Chemical Equilibrium, Balancing of Redox Reaction, Ionic Equilibrium, Chemical Bonding, s-Block and Hydrogen, Boron and Carbon Family, Periodic Properties	Sets, Relations and Functions, Limits, Continuity and Differentiability, Application of Derivatives, Indefinite Integration, Definite Integrals and their Properties, Area, Differential Equations, Mathematical Reasoning, Volume & Surface	Units and Measurement, Kinematics (Motion in One Dimension), Vectors, Kinematics (Motion in Two and Three Dimensions), Relative motion, Laws of Motion, Work, Energy and Power, Center of mass, Conservation of momentum Collisions, Circular motion, Rotational Motion
Advanced	Atomic Structure, Chemical Kinetics, Chemical Equilibrium, Balancing of Redox Reaction, Ionic Equilibrium, Chemical Bonding, s-Block and Hydrogen, Boron and Carbon Family	Functions, Limits, Continuity and Differentiability, Application of Derivatives, Indefinite Integration, Definite Integrals and their properties, Area, Differential Equations	Kinematics, Laws of Motion, Work, Energy and Power, Conservation of Momentum, Rotation
Part Test - II			
Main	Organic Chemistry (Including GOC), Practical Organic Chemistry, Biomolecules, Polymers	Trigonometric Ratios and Identities, Trigonometric Equations, Heights and distance, Solution of triangle, Straight Lines, Circles, Parabola, Ellipse, Hyperbola, Mathematical Induction	Kinetic theory of gases, Heat and Thermodynamics (second law+reversible and irreversible process, carnot engine+thermal expansion + calorimetry), Transfer of Heat + convection, Electrostatics, Current Electricity (color code of resistors), Thermal Effects of Current, Magnetic Effects of Current, Pure magnetism (current loop as magnetic dipole and its moment), bar magnet, magnetic field lines, earth magnetism, para-dia-ferro), Magnets, susceptibility and permeability, hysteresis, electromagnets and permanent magnets, Magnetostatics, Electromagnetics Induction and Alternating Currents (ac generator and transformer, wattless current, quality factor)
Advanced	Organic Chemistry (including GOC), Practical Organic Chemistry, Biomolecules, Polymers	Trigonometric ratios and identities, Trigonometric equations, Solution of triangles, Straight Lines, Circles, Parabola, Ellipse, Hyperbola	Heat and Thermodynamics, Electrostatics, Current Electricity, Magnetism, Electromagnetic Induction, A.C. Circuit
Part Test - III			
Main	Group V to VIII, Transition Elements & Coordination Compounds, f-Block elements, Ores and Metallurgy, Liquid Solution, Surface Chemistry, Electrochemistry, Thermodynamics & Thermochemistry, Stoichiometry, Gaseous State, Qualitative Analysis, Solid State, Environmental Chemistry, Chemistry in Everyday Life	Progression and Series, Quadratic Equations and Expressions, Complex Numbers, Binomial Theorem, Matrices, Determinants, Permutation and Combination, Statistics (Measures of Dispersion) and Probability, Probability Distribution, Binomial Distribution, Vector, Three Dimensional Geometry	Oscillations (forced and damped oscillations), Wave & Sound, Ray Optics (microscope and astronomical telescope), Wave Optics (diffraction (single slit), resolving power of microscope and astronomical telescope, polarisation, Brewster's law, uses of polaroids and polarised light), Electromagnetic Waves, Dual Nature of Matter & Radiation, Atoms, Molecules and Nuclei, Electronic Devices & Communication Systems, Experimental Skills in Physics, Gravitation, Properties of Solids and Fluids + streamline flow, turbulent flow, Reynolds number
Advanced	Group V to VIII, Transition Elements & Coordination Compounds, Ores and Metallurgy, Liquid Solution, Electrochemistry, Thermodynamics & Thermochemistry, Stoichiometry, Gaseous State, Qualitative Analysis, Solid State	Progression and Series, Quadratic Equations and Expressions, Complex Numbers, Binomial Theorem, Matrices Determinants, Permutation and Combination, Probability, Vector, Three Dimensional Geometry	Gravitation, Fluids, Simple Harmonic Motion, Waves & Sound, Optics, Modern Physics, Error Analysis

Note : Full Tests Syllabi will be combined syllabi of Part Tests - I, II & III.