Syllabi of Computer Based All India Integrated Test Series (in Class XI) 2020-21

Electrophilic Aromatic Substitution
Carbon Family, Hydrocarbons, s-Block & Hydrogen, Boron and

Reaction, Chemical Equilibrium, Ionic Stoichiometry & Balancing of Redox

Atomic Structure, Periodic Properties

Environmental Chemistry

Electrophilic Aromatic Substitution,
s-Block & Hydrogen, Boron and

Organic Chemistry, Isomerism,
Concepts of Acids and Bases, General

Ionic Equilibrium, Chemical

Chemical Bonding & Molecular

Atomic Structure, Classification of Elements and Periodicity in Properties,
Chemical Bonding & Molecular

Thermodynamics, Chemical Equilibrium, Kinetics, Living System, Proteins andEnzymes

Environmental Chemistry

Electromagnetic Induction, A.C. Circuit

Heat and Thermodynamics, Electrostatics, Current Electricity, Magnetics,

Experimental Skills in Physics, Gravitation, Properties of Solids and Fluids

Electromagnetic Waves, Dual Nature of Matter & Radiation, Atoms,

Physics: Two Year Program for JEE Advanced, 2022

Solved examples are provided to develop problem-solving skills.
Every Phase develops concepts through illustrations and exercises.
Extensive coverage of objective as well as subjective problems to

 dispatched so as to give sufficient time to the Students to
put his/her efforts to study.

We strongly urge the Students to become proficient in their concepts and helps them with

performance among serious aspirants across the nation.

Students to perform well in IIT-JEE.

FIITJEE is a well established well-reputed online Test Series that helps Students in developing good examination temperament, also gives an ideal platform to analyze relative performance among aspirants across the

FIITJEE will conduct Phase Tests through the following:shipment in four phases

Syllabi of Computer Based All India Integrated Test Series (in Class XII) 2021-22

Atomic Structure, Periodic Properties

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Learning is more effective when you can relate it to real-life situations and experiences. The best way to achieve this is by practicing what you learn. By providing you with chapter-wise questions, we are ensuring that you are well-prepared for both your Class XII Board exams and the JEE. 

The experience of learning becomes easier when you are encouraged to think critically and creatively. The practice questions are designed to help you improve your problem-solving skills and prepare you for the competitive exams. These practice questions cover all the concepts and topics relevant to the syllabus, helping you to understand the subject matter better. 

Note: The above information is based on the current syllabus and may be subject to change. Please refer to the official JEE and Class XII Board exam websites for the latest updates.

Eligibility Criteria

For admission to the JEE Advanced 2022, candidates must meet the following eligibility criteria:

1. Indian nationals and permanent residents of India.
2. The candidate must have appeared for the JEE Main 2022 examination.
3. The candidate must have secured a minimum of 75% in the Class XII Board exams in Physics, Chemistry, and Mathematics.
4. The candidate must have appeared for the full-time course of Rankers Study Material for at least 6 months prior to the JEE Advanced 2022 examination.

Fee of Rankers Study Material 2020-22 (Two Year Program for JEE Advanced 2022):

<table>
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<tr>
<th>Program Code</th>
<th>Books Fee</th>
<th>Computer Based All India Integrated Test Series (AITS) Fee</th>
<th>Online Test Series Fee</th>
<th>Program Fee (Total)</th>
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Note: *MyPAT Package: Total 75 Tests (5 Full Tests + 5 Part Tests) for JEE Main, Total 10 Tests (5 Full Tests + 5 Part Tests) for JEE Advanced.

How to Enroll

Log on to www.fiitjee-distancelearning.com and register. This will lead you to the pre-installation of the Rankers Study Material Two Year version for JEE Advanced.

www.fiitjee-distancelearning.com
These are the test centres for JEE (Main & Advanced) Test Series only. Concept Strengthening Classroom Program will be held at FIITJEE Centres only. What is required is total dedication and hard work.

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.

Testing pattern of JEE (Main & Advanced) keeps on changing but the key aspect of the test is to judge the student's analytical ability along with questions and connect share knowledge with other students to gain and master every according to your personalised schedule.

How to Enrol
Log on to www.fitjee-distancelearning.com/registration

Eligibility Criterion
Graduates must have scored minimum 70% in class 12th in Science + Mathematics. Minimum 85% in Board exams of CBSE, ICSE, Andhra Pradesh, Maharashtra, Telangana, Tamilnadu & West Bengal boards. Minimum 93% in (Science + Maths) from any other board. Graduates must have appeared in JEE 2020.

Scholarship to Students having qualified any stage of NTSE, KVPY, Olympiad, JSTSE or JSTSE/SSTSE/MTSE and other Talent Search Exam conducted by State Board.

Note: In case of State Board System in Boards, equivalent Grade Corresponding to eligibility criteria will be considered.

Eligibility to Rankers Study Material will be entitled for 10% concession on Books Fee & Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

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<th>Program Code</th>
<th>Books Fee</th>
<th>Computer Based All India Integrated Test Series Fee (AITS) Fee</th>
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<th>Program Fee (Total)</th>
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<td>29847 (Rs. 3999 + 18% GST)</td>
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<td>3999 + 18% GST</td>
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</table>

Note: Students of Junior Rankers Study Material will be entitled for 10% concession on Books Fee & Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

Computer based All India Integrated Test Series

Fee of Rankers Study Material 2020-22 (Two Year Program for JEE Advanced 2022) :

Note: For Bronze Medalist, Rs. 800 (inclusive of GST), Student Enrollment Fee = Rs. 1300 (inclusive of GST), Student Enrollment Fee = Rs. 800 (inclusive of GST). For Silver Medalist, please visit www.epai.in.

The first packet of Books (Pre-Departure Syllabus) will be dispatched in April/May.

Note 1: Students of Junior Rankers Study Material will be entitled for 10% concession on Books Fee in Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

Note 2: The upgraded grades (A1* or A1**) will not be considered for scholarships.

Note 3: Students of Junior Rankers Study Material will be entitled for 10% concession on Books Fee & Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

Finding the best scholarship to be eligible on the basis of performance and grades

The proposed grades (A+ or A**) will not be considered for scholarships.

Note 1: Students of Junior Rankers Study Material will be entitled for 10% concession on Books Fee in Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

Note 3: A graduate eligible for more than one scholarship, basic salary will be escalated whichever is higher or eligible.
The Ideal Correspondence Course

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

Note: Student has option to take Test at home in personal laptop/desktop computer system. It will be Internet-based Test conducted in real time.

Students having sound fundamental knowledge of subjects will always outperform the students who are only confining their preparation to pattern rather than 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.

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 best efforts can make the cut.

Agartala Coimbatore Jammu Muzaffarpur Vijayawada

Delhi NCR (Gurgaon) Chandigarh Jabalpur Navi Mumbai Vadodara

Delhi NCR (Ghaziabad) Bokaro Indore Mumbai Thrissur

Delhi NCR (Faridabad) Bhubaneswar Hyderabad Meerut Sonipat

Delhi (Dwarka) Bhopal Hisar Ludhiana Siliguri

Aurangabad Durgapur Karnal Raipur

myPAT is an Online Platform for Learning through Assessment, Analysis and Identification of Improvement Areas. Follow your personalized schedule and concept and progress at your comfort.

How to enrol

Log on to www.fiitjee-distancelearning.com/enrollonline

Eligibility Criteria

Students having secured merit (AI 1000) in B.Sc (Physics) / B.Sc (Maths) are eligible for myPAT.

To get the best out of myPAT, we recommend the following:

1. Study through the study material & make your own notes & summaries.

2. Practice different type of questions & test your knowledge.


4. Review & improve any concept you feel you need to improve.

5. Follow your progress & current status on www.myPAT.in

6. Profile

Eligibility Criterion

National Olympiads

KVPY (Conducted by Indian Institute of Science)

Jr. Science Olympiad (Conducted by NCERT)

Board Marks

Note 1: Students of Junior Rankers Study Material will be entitled for 10% concession on Books Fee & Computer Based AITS Fee of Rankers Study Material Two Year version for JEE Advanced.

Note 3: 12 Students who have secured a minimum of 90% marks in X Board in the year 2020. Only such students will be eligible for the same.

Note 2: For Silver Medalist, Students will also get Rs. 800 (inclusive of GST) on Books Fee & Rs. 400 (inclusive of GST) on AITS Fee.

Note 4: For Gold Medalist, Students will also get Rs. 1000 (inclusive of GST) on Books Fee & Rs. 400 (inclusive of GST) on AITS Fee.

Note 5: Only Final Interview - Wherever applicable, the criterion of Orientation Cum Selection and Selection in Stage-III i.e. Pre Departure Training Camp for International Physics / Chemistry / Astronomy & Astrophysics will be applicable. For details of all fees please visit our website www.myPAT.in

The announced grades (AI* or AI**) will not be considered for scholarships.

Note 1: Students in the general category only.

Note 2: A student who has appeared in the JEE Main & JEE Advanced and qualified in any of our Admission Tests / Scholarship Tests are eligible to apply.

Note 3: Scholarships are only applicable for those Students qualifying in the general category only.

Note 4: To be eligible for scholarship, the candidate should have scored the minimum required qualification to be classified as merit student by the Student as per the Statement of Merit.

Note 5: Only students who have secured merit (AI 1000) in B.Sc (Physics) / B.Sc (Maths) are eligible for myPAT.

Note 6: For details of all fees please visit our website www.myPAT.in
### Syllabi of Computer Based All India Integrated Test Series (in Class XI) 2020-21

<table>
<thead>
<tr>
<th>PAPER</th>
<th>CHEMISTRY</th>
<th>MATHEMATICS</th>
<th>PHYSICS</th>
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<td>Part - I</td>
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<td>New</td>
<td>Advanced</td>
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<tr>
<td>Foundation: Chemistry, Classification of Elements and Periodicity in Properties, Chemical Bonding - Ionic and Non- Ionic, Covalent and Metallic, Valence Electrons and Octet Rule, Quantum Numbers, Quantum Mechanical Model, Periodic Table, Electronic Configurations, Valence Electrons, Hybridisation,</td>
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<td>Electrophilic Aromatic Substitution, Carbon Family, Hydrocarbons, Organic Chemistry, Isomerism, Reaction, Chemical Equilibrium, Ionic Stoichiometry &amp; Balancing of Redox and Chemical Bonding, Gaseous State, Atomic Structure, Periodic Properties of s-Block &amp; Hydrogen, Boron and Carbon Family,</td>
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<td>Organic Equilibrium, Chemical Reactions, Chemical Equilibrium, Structure, States of Matter – Gaseous Elements and Periodicity in Properties,</td>
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<td>Progression and Series, Triangles, Binomial Theorem, Complex &amp; Hyperbolic Functions, Mathematical Expressions, Complex Numbers, Demovire’s Theorem Logarithmic Series, Binomial Theorem, Inequalities, Exponential Series, Distances, Progressions, Series Trigonometric Equations, Heights &amp; Distances,</td>
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<td>Electricity, Solids and Fluids, Oscillations, Wave, Heat and Thermodynamics, Electrostatics, Current Electricity, Magnetics, Electromagnetic Waves, Dual Nature of Matter &amp; Radiation, Atoms, Molecules (single slit), resolving power of microscope and astronomical telescope, Oscillations (forced and damped oscillations), Wave &amp; Sound, Ray Optics Transformer, wireless current, Quality Factor) Electromagnetics Induction and Alternating Currents (ac generator and hysteresis, Electromagnets and permanent magnets, Magnetostatics, Magnetic Effects of Current, Pure magnetism (current loop as magnetic Current Electricity (color code of resistors), Thermal Effects of Current, Expansion + Calorimetry), Transfer of Heat + Convection, Electrostatics, Momentum, Rotation Kinematics, Laws of Motion, Work, Energy and Power, Conservation of Momentum, Kinematics (Motion in One Dimension), Vectors,</td>
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<td>Foundation: Chemistry, Chemical Kinetics, Thermochemistry, Stoichiometry, Gaseous State, Solution, Electrochemistry, Thermodynamics &amp; Entropy,</td>
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<td>Definite Integrals and their properties, Area, Application of Derivatives, Indefinite Integration, Integration,</td>
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<td>Advanced</td>
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<td>Concept of sets, subsets, De Morgan’s laws, Venn diagram, Boolean Algebra,</td>
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<td>Pigeonhole Principle, Mathematical Induction</td>
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<tr>
<td>Extensive coverage of objective as well as subjective problems to ensure pattern proof preparation for JEE Papers. For Students of Class XI</td>
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<tr>
<td>Regular feedback to students in form of performance evaluation.</td>
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<td>Students have to put his / her efforts to study.</td>
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<td>Two Year Program for JEE Advanced, 2022</td>
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<td>Comprehensive study material divided into Six Phases.</td>
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**Syllabi of Computer Based All India Integrated Test Series (in Class XI) 2020-21**

**Schedule of Tests** will be made available in August 2020.

**Syllabi of Half Course Tests** (in Class XI) will be the combined syllabi of Part Tests - I & II as above.

**Advancement**
- Concepts of solids and solutions, Bonding, Properties of elements, Periodicity, Groups & Periods
- Electron Configuration, Shapes of molecules, VSEPR, Electronic structure and Isomeric spectra
- Radioactivity, Nuclear chemistry, Chemical Kinetics & Thermodynamics

**Main**
- Concepts of Acids and Bases, General Chemistry, Chemical Kinetics & Thermodynamics
- Equilibrium, Ionization of acids & bases, Acid-base titrations, Redox, Oxidation number, Oxidation-reduction reactions
- Chemical Equilibria, Acid-base, Redox, Solubility, pH
- Equilibrium, Acid-base, Redox, Solubility, pH

**Advanced**
- Concepts of Acids and Bases, General Chemistry, Chemical Kinetics & Thermodynamics
- Equilibrium, Ionization of acids & bases, Acid-base titrations, Redox, Oxidation number, Oxidation-reduction reactions
- Chemical Equilibria, Acid-base, Redox, Solubility, pH
- Equilibrium, Acid-base, Redox, Solubility, pH

**Papers**
- **Chemistry**
  - Concepts of Acids and Bases, General Chemistry, Chemical Kinetics & Thermodynamics
  - Equilibrium, Ionization of acids & bases, Acid-base titrations, Redox, Oxidation number, Oxidation-reduction reactions
  - Chemical Equilibria, Acid-base, Redox, Solubility, pH
- **Mathematics**
  - Equations, Law of Matrices, Matrices, Vector, Probability
- **Physics**
  - Concepts of Acids and Bases, General Chemistry, Chemical Kinetics & Thermodynamics
  - Equilibrium, Ionization of acids & bases, Acid-base titrations, Redox, Oxidation number, Oxidation-reduction reactions
  - Chemical Equilibria, Acid-base, Redox, Solubility, pH

**RANKERS STUDY MATERIAL - The Ideal Correspondence Course**

**For Students of Class XI**

- Comprehensive study material divided into Six Phases
- Regular feedback to Students in form of performance evaluation
- Students to become proficient in their concepts and helps them with temperament, also gives an ideal platform to analyze relative performances
- Ensures performance consistency across the board
- Designed to schedule to gain sufficient time to the Students to put in the hard work
- RJSS is now built with myPAT – Online Test Series that helps students to benchmark their performance in their concepts and helps them with effective test analysis

**RANKERS STUDY MATERIAL - The Ideal Correspondence Course**

**Two Year Program for JEE Advanced, 2022**

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<th>Rankers Study Material (RSM)</th>
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**FIITJEE:** Students from Rankers Study Material Programs in JEE India Test Series Programs excelled in JEE Advanced, 2019!

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