

Information given by aptoinn nata coaching centre

### **EVERYTHING ABOUT NATA -2019**

It is a exam to be undertaken by all architecture aspirants, after the completion of 12<sup>th</sup> exam to ensure a B.Arch. seat in any reputed architecture college in India provided the candidate scores a minimum pass mark in the exam also clearing NATA exam is slightly to applying B.Arch. for admission in any architecture college. This exam is a central govt. exam under the guidance of council of architecture (COA) exclusively council establish under govt. to safeguard the professionals in architecture



### **Aptoinn:**

Aptoinn is a 13+ years grand old Organization founded by Architect activists in 2003. This organization does many architecture oriented social benefit works, Creative course career counselling works, awareness programs to school students about the field of architecture & induce knowledge about the assets of Indian architecture, guidance to various architecture training spots & colleges etc.

### **Apto-inn NATA differ from others coaching:**

“APTOINN NATA COACHING” is a grand wing of Aptoinn organization which was exclusively launched for aptitude coaching for the B.Arch. Aspiring students. And the classes are conducted by a group of Professors from various reputed architecture colleges, Practising Architects, Artists, best performing B.Arch. students, Architecture Interns etc.



Our Coaching Branches extents almost to all the South-Indian states & most of the important cities in Tamil nadu as Regular Coaching branches & special Coaching Branches.

We are the specialized & experienced architecture coaching institute involving in NATA coaching, J.E.E B.Arch. aptitude coaching & other related architecture aptitude tests coaching where the “Architecture studies” is the core of our institute with 10 years of expertise without any other diversification.

### **APTOINN ARCHITECTURE ACADEMY SINCE 2003.**

**BRANCHES:** CHENNAI(TAMBARAM/ANNA NAGAR/ADYAR/ROYAPETTAH/T.NAGAR), COIMBATORE, SALEM, TRICHY, MADURAI, PONDYCHERRY, TRIVANDRUM, HYDERABAD, BANGALORE(WHITE FIELD)  
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**DOWNLOAD:****Syllabus for NATA-2019:**

Subject		Questions	Marks	Mode of Exam
Test on Scientific ability and General Aptitude	Mathematics	20	40	MCQ (Online)
	General Aptitude	40	80	MCQ (Online)
Drawing test		02	80	Paper and Pencil

**1. MATHEMATICS:**

- **Algebra:** Definitions of A. P. and G.P.; General term; Summation of first n-terms of series  $\Sigma n, \Sigma n^2, \Sigma n^3$ ; Arithmetic/Geometric series, A.M., G.M. and their relation; Infinite G.P. series and its sum.
- **Logarithms:** Definition; General properties; Change of base.
- **Matrices:** Concepts of  $m \times n$  ( $m \leq 3, n \leq 3$ ) real matrices, operations of addition, scalar multiplication and multiplication of matrices. Transpose of a matrix. Determinant of a square matrix. Properties of determinants (statement only). Minor, cofactor and adjoint of a matrix. Nonsingular matrix. Inverse of a matrix. Finding area of a triangle. Solutions of system of linear equations. (Not more than 3 variables).
- **Trigonometry:** Trigonometric functions, addition and subtraction formulae, formulae involving multiple and submultiple angles, general solution of trigonometric equations. Properties of triangles, inverse trigonometric functions and their properties.
- **Coordinate geometry:** Distance formula, section formula, area of a triangle, condition of collinearity of three points in a plane. Polar coordinates, transformation from Cartesian to polar coordinates and vice versa. Parallel transformation of axes, concept of locus, elementary locus problems. Slope of a line. Equation of lines in different forms, angle between two lines. Condition of perpendicularity and parallelism of two lines. Distance of a point from a line. Distance between two parallel lines. Lines through the point of intersection of two lines. Equation of a circle with a given center and radius. Condition that a general equation of second degree in x, y may represent a circle. Equation of a circle in terms of endpoints of a diameter. Equation of tangent, normal and chord. Parametric equation of a circle. Intersection of a line with a circle. Equation of common chord of two intersecting circles.
- **3-Dimensional Co-ordinate geometry:** Direction cosines and direction ratios, distance between two points and section formula, equation of a straight line, equation of a plane, distance of a point from a plane.

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- **Theory of Calculus:** Functions, composition of two functions and inverse of a function, limit, continuity, derivative, chain rule, derivative of implicit functions and functions defined parametrically. Integration as a reverse process of differentiation, indefinite integral of standard functions. Integration by parts. Integration by substitution and partial fraction. Definite integral as a limit of a sum with equal subdivisions. Fundamental theorem of integral calculus and its applications. Properties of definite integrals. Formation of ordinary differential equations, solution of homogeneous differential equations, separation of variables method, linear first order differential equations.
- **Application of Calculus:** Tangents and normals, conditions of tangency. Determination of monotonicity, maxima and minima. Differential coefficient as a measure of rate. Motion in a straight line with constant acceleration. Geometric interpretation of definite integral as area, calculation of area bounded by elementary curves and Straight lines. Area of the region included between two elementary curves.
- **Permutation and combination:** Permutation of  $n$  different things taken  $r$  at a time ( $r \leq n$ ). Permutation of  $n$  things not all different. Permutation with repetitions (circular permutation excluded). Combinations of  $n$  different things taken  $r$  at a time ( $r \leq n$ ). Combination of  $n$  things not all different. Basic properties. Problems involving both permutations and combinations.
- **Statistics and Probability:** Measure of dispersion, mean, variance and standard deviation, frequency distribution. Addition and multiplication rules of probability, conditional probability and Bayes' Theorem, independence of events, repeated independent trails and Binomial distribution.

## 2. GENERAL APTITUDE:

Objects, texture related to architecture and built environment. Interpretation of pictorial compositions, Visualizing three-dimensional objects from two-dimensional drawing. Visualizing different sides of 3D objects. Analytical reasoning, mental ability (visual, numerical and verbal), General awareness of national/ international architects and famous architectural creations.

- **Mathematical reasoning:** Statements, logical operations like and, or, if and only if, implies, implied by. Understanding of tautology, converse, contradiction and contrapositive.
- **Sets and Relations:** Idea of sets, subsets, power set, complement, union, intersection and difference of sets, Venn diagram, De Morgan's Laws, Relation and its properties. Equivalence relation — definition and elementary examples.

## 3. DRAWING TEST:

- Understanding of scale and proportion of objects, geometric composition, shape, building forms and elements, aesthetics, colour texture, harmony and contrast. Conceptualization and Visualization through structuring objects in memory. Drawing of patterns - both geometrical and abstract. Form transformations in 2D and 3D like union, subtraction, rotation, surfaces and volumes. Generating plan, elevation and 3D views of objects. Creating 2D and 3D compositions using given shape and forms. Perspective drawing, Sketching of urban scape and landscape, Common day-to-day life objects like furniture, equipment etc., from memory.

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**NATA 2019:****Nata exam**

NATA is the National aptitude test in architecture (NATA). Any one aspiring to become an architect in india has to take up the NATA exam.

Prospective applicants desirous of taking admission to First year of undergraduate course in Architecture (Bachelor of Architecture) in India take NATA. NATA scores are used by admissions authorities of different Government, Govt. Aided & unaided schools / colleges of Architecture, to provide common measure for comparing the qualifications of applicants for admission in addition to their scholastic performance in 10+2 or equivalent examination.

Its also a mandatory exam to be taken up by all architecture aspirants to gain the eligibility to approach for B.Arch admissions in any college in india except N.I.T & I.I.T colleges for which a separate exam called “ J.E.E – B.Arch “ has to be taken up.

**IMPORTANT DATES TO NOTIFY:**

**NATA exam** 2019 is conducted two times /two attempts

**Attempt-1      14.04.2019**

**Attempt-2      07.07.2019**

**NATA results**

**Attempt-1      03.05.2019**

**Attempt-2      21.07.2019**

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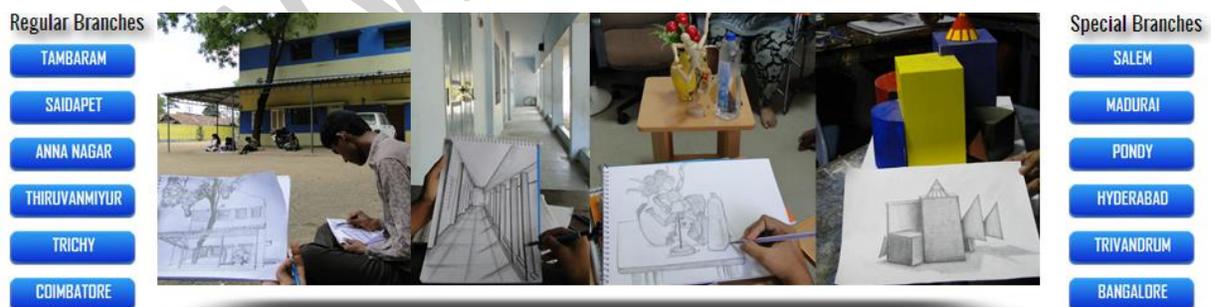
## **WHY TO SELECT APTOINN ?**

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In short ,we are the “Architecture Activist” organization with core, specialization & development only in relation to architecture studies & allied practices.

**“WE ARE THE TOP BEST & BIGGEST CHAIN OF NATA COACHING INSTITUTES IN INDIA” - Says not “us” , but our RESULTS.**



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NATA COACHING CENTER

2019  
NATA /  
JEE- B.Arch

**WHAT IS NATA EXAM?**  
This is the National Aptitude Test in  
Architecture need to be under taken for  
B.ARCH Professional Course for your CAREER in  
"ARCHITECTURE"



**" IF YOU ARE A GOOD FANTASIZER THIS IS THE  
RIGHT CHOICE OF YOUR CAREER "**



Contact: 9176301689 / 9176562187  
9884872837  
website: [www.aptoinn.in](http://www.aptoinn.in)

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