TAMIL NADU APTITUDE TEST IN ARCHITECTURE (TANATA - 2017)
FOR ADMISSION TO B.ARCH DEGREE PROGRAMME UNDER
MANAGEMENT QUOTA AND GOVERNMENT QUOTA LAPSED SEATS FOR
THE YEAR 2017-18

INFORMATION AND INSTRUCTIONS BOOKLET
1.0 INTRODUCTION

As per G.O. (D) No. 242 dated 18.7.2017, Higher Education (J2) Department, Tamil Nadu, Anna University will be conducting Tamil Nadu Aptitude Test in Architecture (TANATA) for the year 2017. This test is intended for admission of students into the B. Arch degree course under Management Quota and Government Quota lapsed seats for the year 2017-18. As per the current practice being followed, Government Quota seats will continue to be filled by Anna University based on the marks obtained in +2 examination and in NATA 2016/2017. The Management Quota and the Government Quota lapsed seats will be filled up based on the marks obtained in +2 examination and in the marks obtained in NATA 2016/2017. The remaining vacant seats will be filled up based on the marks obtained in +2 examination and in the marks obtained in JEE II. Then the remaining vacant seats if any, will be filled based on marks obtained in +2 examination and marks obtained in TANATA 2017.

2.0 ABOUT TANATA 2017

Tamil Nadu Aptitude Test in Architecture 2017 measures the aptitude of the applicant in the field of Architecture. The test makes an assessment of drawing and observation skills, sense of proportion, aesthetic sensitivity, mathematics and critical thinking ability.

3.0 ELIGIBILITY CRITERIA FOR CANDIDATES

The eligibility requirements for the candidates appearing for TANATA 2017 are as follows.

(a) Secured 50% marks in 10+2 or equivalent examination with Mathematics as one of the subjects; OR
(b) 10+3 Diploma (any stream) recognized by Central/State Govts with 50% aggregate marks with Mathematics; OR
(c) International Baccalaureate Diploma passed after 10 years of Schooling with 50% marks in aggregate and with Mathematics as compulsory subject of examination

Qualifying in TANATA does not constitute a right/guarantee for the candidate’s admission to any architecture course unless he/she has fulfilled all the prescribed requirements as specified by respective counselling and admission authorities.

4.0 VALIDITY PERIOD OF TANATA 2017

The validity period of the TANATA 2017 for admission to the academic session 2017-18 only.
5.0 SCHEDULE OF EVENTS FOR TANATA 2017

The schedule of events for TANATA 2017 is as follows.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Events</th>
<th>Proposed Date for 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Publication of TANATA brochure and guidelines</td>
<td>24.07.2017</td>
</tr>
<tr>
<td>2.</td>
<td>Commencement of registration through online</td>
<td>24.07.2017</td>
</tr>
<tr>
<td>3.</td>
<td>Last date for registration through online</td>
<td>31.07.2017</td>
</tr>
<tr>
<td>4.</td>
<td>Downloading of Hall Tickets from Anna University website</td>
<td>07.08.2017</td>
</tr>
<tr>
<td>5.</td>
<td>Date of Test</td>
<td>12.08.2017</td>
</tr>
<tr>
<td>6.</td>
<td>Announcement of marks and valid score</td>
<td>18.08.2017</td>
</tr>
<tr>
<td>7.</td>
<td>Downloading of mark sheets</td>
<td>19.08.2017</td>
</tr>
</tbody>
</table>

6.0 APPLICATION PROCEDURE

Application has to be filled online at www.annauniv.edu/tanata2017

7.0 EXAMINATION DETAILS

7.1 DATE & TIME OF EXAMINATION 12th AUGUST 2017, SATURDAY 10.00 AM TO 1.00 PM

7.2 EXAMINATION CENTRES

There will be six examination centres as given below.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the City</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chennai</td>
</tr>
<tr>
<td>2.</td>
<td>Coimbatore</td>
</tr>
<tr>
<td>3.</td>
<td>Madurai</td>
</tr>
<tr>
<td>4.</td>
<td>Tiruchirappalli</td>
</tr>
<tr>
<td>5.</td>
<td>Tirunelveli</td>
</tr>
<tr>
<td>6.</td>
<td>Salem</td>
</tr>
</tbody>
</table>

Allocation of centres will be based on the choices given by the candidate in the application subject to availability. Request for change of allocated centre will be not be entertained under any circumstances.
7.3 REGISTRATION FEE

Registration fee for TANATA 2017 as follows:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Others</th>
<th>SC/SCA/ST candidates belonging to Tamil Nadu</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>`2000</td>
<td>`1000</td>
</tr>
</tbody>
</table>

7.4 MODE OF EXAMINATION

There will be two parts in the examination, Part A and Part B. A folder containing booklets for both will be given at the beginning of the examination. Part A will have Multiple Choice Questions (MCQ) and has to be answered in OMR sheet which involves shading the correct answer. The OMR answer sheet for Part-A will be taken back after 90 minutes. Part B will consist of drawing questions and has to be answered in drawing sheets. Candidate has to attempt the drawing questions within 90 minutes. Candidates must follow instructions in the booklets for filling the details and answers.

7.5 DISTRIBUTION OF MARKS

The total marks for the examination will be **200**. The distribution is as follows.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Marks of Examination</th>
<th>Qualifying Score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong> (First 90 minutes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics (MCQ)</td>
<td>20 × 2 = 40 marks (OMR Based)</td>
<td>30 marks out of 120</td>
</tr>
<tr>
<td>General Aptitude (MCQ)</td>
<td>40 × 2 = 80 marks (OMR Based)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong> (last 90 minutes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawing Test</td>
<td>2 × 40 = 80 marks (Drawing Based)</td>
<td>20 marks out of 80</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>200 marks</td>
<td>Overall qualifying marks (out of 200) would be based on post-exam statistics</td>
</tr>
</tbody>
</table>
7.6 SYLLABUS FOR EXAMINATION

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. Non singular 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 centre 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.

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 trials and Binomial distribution.

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.


Drawing Test

Understanding of scale and proportion of objects, geometric composition, shape, building forms and elements, aesthetics, colour texture, harmony and contrast. Conceptualization and visualisation 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 urbanscape and landscape, common day-to-day life objects like furniture, equipment etc., from memory.

8.0 MODE OF EVALUATION

Mathematics & General Aptitude Test

Only one option is correct and correct response will yield 2 (two) marks. There is no negative marking, but wrong answering will be penalised in case of tie breaking, as elaborated below.
Drawing Test

The answer to each question in the drawing test will be examined by more than one examiner independently and the marks are to be averaged. The drawing aptitude is judged on the following aspects

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner;
- Visualising and drawing the effects of light on the object and shadows cast on surroundings;
- Sense of perspective drawing;
- Combining and composing given three dimensional elements to form a building or structural form;
- Creating interesting two dimensional composition using given shapes and forms;
- Creating visual harmony using colours in given composition;
- Understanding of scale and proportions;
- Drawing from memory through pencil sketch on themes from day to day experiences.

The primary emphasis in scoring the drawing section is on the candidate's drawing, imagination and observation skills. The candidate's sense of proportion and perspective are also evaluated together with sense for colour and composition.

Tie breaking rules for overall score

Merit list of candidates will be published with unique rank for each candidate. If more than one candidate gets the same overall marks, tie breaking logic would be applied in the following order:

1. Highest marks obtained in Mathematics Test component
2. Less wrong answers in attempted ones of Mathematics Test component
3. Highest marks in General Aptitude test component
4. Less wrong answers in attempted ones of General Aptitude Test component
5. Earlier date of birth

9.0 DECLARATION OF RESULTS

Results will be available in the website www.annauniv.edu/tanata2017

The result will be available in two formats:
1. Marks obtained out of 200 and in each component
2. Merit listing – unique based on marks and tie breaking rules

Qualifying marks for TANATA 2017 would be based on the following rules:
1. At least 25% must be secured in MCQ portion (30 out of 120)
2. At least 25% must be secured in Drawing portion (20 out of 80)
3. Overall qualifying marks (out of 200) would be based on post-exam statistics and at the discretion of Coordination Committee of TANATA 2017

10.0 INTERPRETATION AND LEGAL JURISDICTION

In case of any dispute regarding interpretation of any clause in this brochure, the interpretation of Coordination Committee of TANATA 2017 shall be final and binding.

All matters pertaining to conduct of TANATA 2017 shall fall within the jurisdiction of Courts situated in Tamil Nadu only.