XYLEM

NEET/JEE in 2029?

സൈലം സ്കൂളിൽ 100% വരെ സ്കോളർഷിപ്പിൽ പഠിക്കാം*



NEST'27
Xylem national entrance cum scholarship test

FOR **CLASS 10 CBSE STUDENTS**

REGISTER NOW

KOZHIKODE | KANNUR | MALAPPURAM | WAYANAD | THRISSUR | PALAKKAD
ERNAKULAM | ALAPPUZHA | KOTTAYAM | KOLLAM |TRIVANDRUM

7356 440 777

*Based on scholarship exam

EXAM INSTRUCTIONS

Total Questions : 90
Total Marks : 360
Time : 90 MINS
Marking Scheme : Correct Answer: +4 marks
Wrong Answer: –1 mark

Who Can Attend	Exam Centres
Class 10 CBSE Students	Across **All 14 Districts of Kerala & GCC**

Subjects & Weightage :

Subject	NEET
Physics	25 (100 marks)
Chemistry	25 (100 marks)
Biology	40 (160 marks)

Subject	JEE
Physics	25 (100 marks)
Chemistry	25 (100 marks)
Mathematics	40 (160marks)

Exam Mode

Question Paper : Objective type (Multiple Choice Questions)
Answering Mode : OMR sheet
Result Declaration : Within 5 working days of the test date

Separate exams will be conducted for NEET & JEE aspirants

Orientation Programme

An orientation session for parents & students will be conducted at the NEST exam centre. The session will cover the importance of NEET/JEE coaching, major entrance examinations after Class 12, & other essential information to help students plan their academic journey

Scholarship Details

- Students who have appeared for the NEET exam will be eligible for the scholarship for the NEET-oriented Class 11 & 12 batch. The same eligibility criteria apply to the JEE batch as well.
- Scholarships are valid for Class XI admission Only
- Continued scholarship requires good academic performance
- Scholarship is applied on Xylem course fee only

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CLASS 10 CBSE SYLLABUS

PHYSICS

Force & Friction: What is Force, Types of Force, Scalar & Vector Quantity, Friction. **Thrust & Pressure:** Atmospheric Pressure, Liquid Pressure. **Sound:** Properties, Sources, Natural Frequency, Propagation, Audibility -Ultrasonic & Infrasonic. **Electricity:** Insulators, Conductors, Current, Voltage, Capacitor, Resistor, Ohm's Law, Combination of Resistors, Joule's Law, Thunder & Lightning. **Light- Reflection & Refraction:** Properties, Propagation of Light, Reflection of Light, Laws of Light, Reflection By Spherical Mirrors, Image Formation By Spherical Mirrors, Lens, Uses of Lenses & Mirrors, Real & Virtual Images. **Motion in a Straight Line:** What is Motion, Types of Motion, Laws of Motion, Equations of Motion, Graphical Representation of Motion. **Gravitation:** Universal Law of Gravitation, Mass & Gravitation, Mass & Weight, Acceleration Due to Gravity, Free Fall. **Work, Energy & Power:** Work, Types of Work, Kinetic Energy & Potential Energy, Energy, Law of Conservation of Energy, Power. **Magnetic Effects of Current:** Magnetic Field.

CHEMISTRY

Structure of Atom: Atoms, Dalton's Atomic Theory, Subatomic Particles, Types Of Atomic Models, Bohr Model, Basics of Chemical, Bonding (Valency, Writing Chemical Formulae Using Valency, Mainshell Electronic Configuration, Isotopes, Isobars & Isotone. **Properties of Matter:** States of Matter, Change of State, Diffusion, Mixtures & Their Types, Pure Substances. **Metals:** Physical & Chemical Properties, Reactions of Metals With Air, Water Acids & Bases, Uses of Metals. **Redox Reactions:** Oxidation, Reduction, Displacement Reactions. **Acids, Bases & Salts:** General Properties, Chemical Properties, pH, Salts.

BIOLOGY

Cell Biology (Cytology): Prokaryotic & Eukaryotic Cells, Cell Organelles: ER, Golgi Bodies, Mitochondria, Ribosomes, Lysosomes, Nucleus, Vacuole. **Histology (Tissues):** Plant Tissues, Animal Tissues. **Plant Physiology:** Nutrition Types, Photosynthesis, Plant Hormones, Aerobic & Anaerobic Respiration. **Human Physiology:** Digestive System, Respiratory System, Circulatory System, Excretory System. **Nervous & Endocrine System:** Nervous System: Structure of Brain, Spinal Cord, Neuron , Endocrine System. **Reproduction:** Asexual Reproduction, Sexual Reproduction. **Ecology & Environment:** Food Chain, Food Web, Ecological Interactions, Water, Air & Soil Pollution.

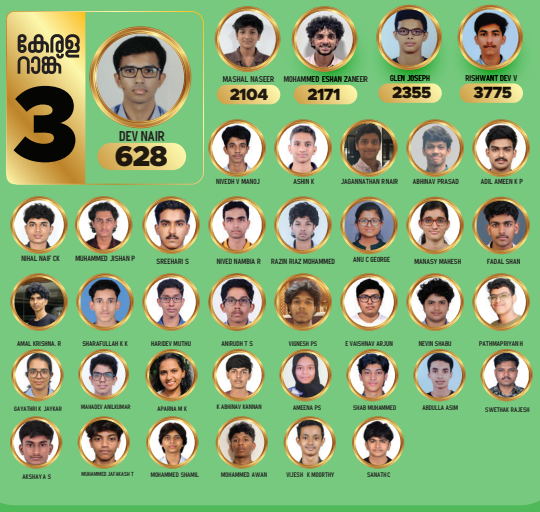
MATHS

Number System: Natural Numbers, Whole Numbers, Integers, Rational & Irrational Numbers, Real Numbers, Fractions,Negative Numbers. **Types of Angles:** Acute Angle, Obtuse Angle, Linear Pairs. **Algebra:** Polynomials - Degree of a Polynomial, Value of a Polynomial at a Given Point, Zeroes of a Polynomial, Polynomial Identities, Factor Theorem, Remainder Theorem, Graphs of Different Polynomial,Relationship Between Zeroes & Coefficient of a Quadratic Polynomial. Linear Equation in One Variable - Linear Equation in Two Variables- Solution of a Linear Equation, Consistent & Inconsistent System of Linear Equations, Solving System of Equations, Condition for Solvability of Linear Equation. Quadratic Equations: Formation of Quadratic Equations, Graph of Quadratic Polynomial, Solving a Quadratic Equation, Nature of Roots, Rational & Irrational Roots. Arithmetic Progression: Sequences & Series, n^{th} Term of an AP, Sum to n Terms of an AP. Laws of Exponents. **Coordinate Geometry:** Distance Formula, Section Formula, Mid Point Formula, Centroid of a Triangle. **Geometry:** SAS (Side-Angle-Side), ASA (Angle-Side-Angle), AAS (Angle-Angle-Side), SSS (Side-Side-Side), RHS (Right Angle-Hypotenuse-Side). **Mensuration:** Area of Trapezium, Area of Parallelogram, Area & Volume of Cuboid, Cube, Cylinder, Hollow Cylinders, Cone, Sphere, Hemisphere. **Statistics & Probability:** Mean of Ungrouped Data, Median of Ungrouped Data, Mode of Ungrouped Data, Basics of Probability.

ഞങ്ങളെത്തിക്കും,
ഞങ്ങൾക്കും മുകളിൽ!



JEE ADVANCED 2026 TOPPERS



NEET 2026 TOPPERS



