XYLEM

NEET/JEE in 2029?

സൈലം സ്കൂളിൽ 100% വരെ സ്കോളർഷിപ്പിൽ പഠിക്കാം*



NEST'27
Xylem national entrance cum scholarship test

FOR CLASS 10 STATE 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 STATE 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

XYLEM

CLASS 10 STATE SYLLABUS

PHYSICS

Sound Waves: Amplitude, Frequency, Resonance, Longitudinal Waves, Transverse Waves, Characteristics of Wave, Reaction of Sound, Echo, Lmits of Audibility. **Lenses:** Types of Lenses, Terms Related to Lens, Image Formation of Convex & Concave Lens, Lenses Formula, Magnification, Power of Lens, Compound Microscope, Telescope. **Refraction of Light :** Refraction, Optical Density, Refractive Index, Laws of Refraction, Total Internal Reflection. **Equations of Motion:** Displacement, Velocity (Uniform / Non Uniform), Acceleration (Uniform / Non Uniform), Position-Time Graph, Velocity-Time Graph. **Laws of Motion:** Resultant Force, External Force, Internal Force, Galileos Observations, Mass & Inertia, Momentum, Rate of Change of Momentum, Newtons Laws of Motion (1st, 2nd & 3rd). **Gravitation:** Universal Law of Gravitation, Acceleration Due to Gravity, Mass & Weight, Free Fall, Circular Motion. **Buoyant Force:** Buoyant Force, Factors Influencing Buoyant Force, Archimedes Principle, Principle of Floatation, Relative Density, Hydrometer, Lactometer. **Work & Energy:** Work, Negative Work, Energy, Potential Energy, Kinetic Energy, Law of Conservation of Energy, Power. **Electric Current:** Potential Difference, Combination of Cell, Intensity of Electric Current, Ohm' s Law, Resistor, Rheostat, Arrangement of Resistor. **Sound:** Sound, Propagation of Sound, Speed of Sound, Music & Noise

CHEMISTRY

Structure of Atom: Atoms, Dalton's atomic theory, Subatomic particles, Types of atomic models, Bohr model. **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. **Nonmet:** Oxygen, Nitrogen, Chlorine & hydrogen - uses, Preparation & properties. **Redox Reactions:** Oxidation, Reduction, Displacement reactions. **Acids, Bases & Salts:** General properties, Chemical properties, pH, Salts. **Polymers:** Fibre, Synthetic fibres, Plastics. **Organic Chemistry:** Basics of hydrocarbons, Naming, Functional Groups, Chemical reactions - substitution, Addition, Polymerization (condensation,addition), Thermal cracking & combustion. **Periodic Classification:** History of mendeleev, Moseley, Lavoisier, Dobereiner & newlands, Periodic table, Trends in the periodic table, Atomic size, Valency, Metallic & non-metallic character. **Chemical Bonding:** Octet rule, Ionic bond, Covalent bond, Polar nature, Electronegativity, Chemical formula.

BIOLOGY

Cell Biology (Cytology): Prokaryotic & Eukaryotic Cells (Cell Organelles), Endoplasmic Reticulum (ER), Golgi Bodies, Mitochondria, Ribosomes, Lysosomes, Nucleus, Vacuole. **Histology (Tissues):** Plant Tissues, Animal Tissues. **Physiology:** Photosynthesis, Light Reaction, Dark Reaction. Respiration: Aerobic & Anaerobic Respiration, Glycolysis, Krebs Cycle. Excretion: Importance, Human Excretory System, Nephron & Urine Formation, Hemodialysis, Excretion in Plants. **Nervous System:** Neuron: Structure & Function, Brain: Parts & Functions. **Reproduction:** Human Reproductive System , Flower: Structure. **Molecular Biology:** DNA Structure, RNA Structure, Nucleotide, Protein Synthesis. **Genetics:** Monohybrid Cross, Dihybrid Cross. **Taxonomy & Systematics:** Classification of Plants & Animals, Five Kingdom Classification, Binomial Nomenclature. **Ecology & Environment:** Ecosystem, Food Chain, Food Web, Ecological Interactions.

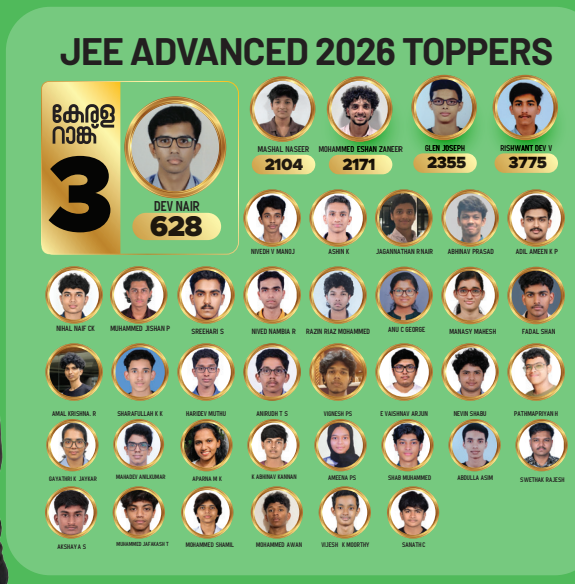
MATHS

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, Graphs of Different Polynomial, Linear Equation in One Variable, Linear Equation in Two Variables, Solution of a Linear Equation, Solving System of Equations. Quadratic Equations: Formation of Quadratic Equations, Square Completion. Arithmetic Progression: • Sequences & Series, n^{th} Term of an AP, Sum to n Terms of an AP, Laws of Exponents. **Geometry:** Congruence of a Triangle: SAS (Side-Angle-Side), ASA (Angle-Side-Angle), AAS (Angle-Angle-Side), SSS (Side-Side-Side), RHS (Right Angle-Hypotenuse-Side). **Similarity of a Triangle:** AAA/AA (Angle-Angle-Angle or Angle-Angle), SAS (Side-Angle-Side Similarity), SSS (Side-Side-Side Similarity). Circles: Cyclic Quadrilateral, Central Angle & Opposite Angles,Angles in a Semi Circle is Right. **Mensuration:** Length of an Arc, Perimeter & Area of Sector & Segments, Area of Trapezium, Area of Parallelogram, Area & Volume of Cuboid, Cube, Cylinder, Hollow Cylinders, Surface area & Volumes of a Combination of Solids. **Trigonometry:** Trigonometric Ratios, Trigonometric Ratios of Some Specific Angles ($30^\circ - 60^\circ - 90^\circ, 45^\circ - 45^\circ - 90^\circ$). **Statistics & Probability:** Mean of Grouped, Ungrouped Data. Basics of Probability Geometrical Probability Sum of Total Probability = 1, Probability in Pairs.

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ഞങ്ങൾക്കും മുകളിൽ!



JEE ADVANCED 2026 TOPPERS



NEET 2026 TOPPERS



KERALA RANK 15
671 MUHAMMED IHSAN T M

661 · 655 KASHYAV · 647 RANIYA S P · 647 FATHIMA MUBARAKA CP
646 MUHAMMED MINHAJ P M · 643 JEFIN BIJU · 643 MEHJEBIN PP · 642 HANNA JAVED P

635 AKHILESH RU · 634 ADIL RAHMAN · 632 HAMNA EM · 629 JIYA JOY · 627 ARYA SMITHA KUMAR · 625 ASWIN P · 624 SAMANWAY HARISH · 622 PREENU ANNA SAMUEL · 621 PADMAPRIYA

620 AJAI S · 620 SREYA S · 620 ANCELNAV · 619 AZHAL SHAJI · 619 FATHIMA THAMANNA · 617 SAYED ARIF MASHHOOR · 617 ANOOJA S NAIR · 616 GALIBA NAVAR · 615 SAJJADH P

613 SREENANDHANA V · 613 JANANI KS · 612 ISHITHA VP · 612 AISHA JIAN NEELANGADAN · 612 FIZA NAFEESA · 612 ALFIYA NOWRIN · 612 AYSHA ANSHA A · 611 BASIL T K · 610 MOHAMED ABAAN K

609 AYISHA NIMI · 609 SHIBINA MK · 609 NAJA FATHIMA · 608 DEVANANDA T M · 608 AMEN REHMAN S · 608 S SAI SARAN · 607 AYISHA ASAFALI K · 605 RAMA LEKSHMI · 605 FATHIMA SANA

604 ATHUL KRISHNA T · 604 NIDHI ARAVIND · 604 ABHINAND KS · 604 HANA RUKIYA PULIKKAL · 604 NIRANJANA M · 603 AMINA SULFATH · 603 FATHIMA THASLEEMA VK · 603 NANDANA RAJEEV · 603 AMRITH KOOTAALA ANIL

603 GOURI S · 602 AMEGH SHIBU A · 601 ABHAY KRISHNA T · 600 AYSHATH MUFEEDA

