Avinashilingam Institute for Home Science and Higher Education for Women

AAEEE Exam Pattern

Name of the Test	No of Questions/ Marks	Total Time
Mathematics	40 Questions/ 40 Marks	2 hours (120 minutes)
Chemistry	30 Questions/ 30 Marks	
Physics	30 Questions/ 30 Marks	
Total Questions/ Marks	**100 Questions/ 100 Marks**	

AAEEE Syllabus

Chemistry

- Atoms
- Molecules and Chemical Arithmetic
- Hydrogen
- Chemistry of Non-Metallic Elements
- Compounds in Industry
- Surface Chemistry
- Polymers
- Environmental Chemistry
- Chemistry of Metals
- Chemistry of Carbon Compounds
- Compounds
- Haloalkanes and Haloarenes
- Alcohols
- Application Oriented chemistry
- Principles of Qualitative Analysis
- Atomic Structure

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- Radioactivity and Nuclear Chemistry
- The Periodic Table
- Chemical Families
- Chemical Bonding
- Molecular Structure
- Coordination Compounds
- Solid State
- Liquid State
- Gaseous State
- Chemical Energetic
- Chemical Dynamics
- Physical Chemistry of Solutions
- Ionic and Redox Equilibria

Physics

- Electrostatics
- Current Electricity, Magnetics
- Bulk properties of matter
- Viscosity
- Thermodynamics
- Kinetic theory of gases
- Oscillations & Waves
- Periodic motion
- Physical World
- Measurements
- Units & dimensions
- Kinematics
- Laws of motion
- Gravitation
- Electromagnetic waves
- Optics I (Ray optics)
- Optics II (Wave Optics)
- Particle nature of light
- wave-particle dualism
- Atomic Physics
- Nuclear Physics

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- Solid state Electronics

Mathematics

- Statistics and probability
- Differential equations
- Sequences and series
- Trigonometry
- Mathematical induction
- https://www.freshersnow.com/syllabus/
- Sets, relations, and functions
- Vector algebra
- Binomial theorem and its simple applications
- Limit, continuity, and differentiability
- Mathematical reasoning
- Co-ordinate geometry
- Permutations and combinations
- Three-dimensional geometry
- Integral calculus
- Complex numbers and quadratic equations
- Matrices and determinants