

# KEE Syllabus PDF

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## KEE 2022 Entrance Exam Syllabus – Physics

- Solid State Physics.
- Electronics.
- Nuclear Physics.
- Electrodynamics.
- Spectroscopy.
- Mathematical Physics.
- Quantum Mechanics.
- Statistical Mechanics.
- Classical Mechanics.
- Laws of motion.
- Thermal properties of matter.
- Units and measurements.
- Kinetic theory.
- Gravitation.
- Work, energy, and power.
- Wave optics.
- Oscillations.
- Physical-world.
- Mechanical properties of solids.
- Ray optics and optical instruments.
- Motion in a straight line.
- Thermodynamics.
- Motion in a plane.
- Nuclei.
- Mechanical properties of fluids.
- Systems of particles and rotational motion.
- Electric charges and fields.
- Moving charges and magnetism.
- Electromagnetic induction.
- Electrostatic potential and capacitance.
- Magnetism and Matter.
- Current electricity.
- Alternating current.
- Dual nature of radiation and matter.

- Electromagnetic waves.
- Atoms.
- Waves2017
- Semiconductor electronics.
- Communication systems.

## **Karunya University Entrance Exam syllabus – Chemistry**

- Atomic Structure & Chemical Bonding.
- Periodic Classification.  
Chemistry d & f block elements.
- General Principles of Metallurgy.
- Chemical Kinetics & Chemical Equilibrium.
- Thermodynamics.
- Electro-Chemistry.
- Solids & Solutions.
- Organic reaction mechanism.
- Heterocyclic Compounds.
- Amines, Amino Acids, and Proteins.
- Chemistry of natural products.
- Separation Methods (Unit Operations).
- Fuels.
- Ceramic Industries.
- Fertilizers.
- Sources of water & Quality.
- General Purification Methods of water.
- Water Softening Method.
- Qualitative & Quantitative analysis.
- The s – block elements.
- P-block elements – group 14 (carbon family).
- Organic chemistry-some basic principles and techniques and hydrocarbons.
- Solutions.
- Surface chemistry.
- Thermodynamics.
- Chemical equilibrium and acids-bases.
- Hydrogen and its Compounds.
- Atomic structure.
- D and f block elements & coordination compounds.
- Classification of elements and periodicity in properties.
- Environmental chemistry.

- Chemical bonding and molecular structure.
- Solid state.
- States of matter: gasses and liquids.
- Electrochemistry and chemical kinetics.
- Stoichiometry.
- General principles of metallurgy.
- Organic compounds containing c, h, and o.
- P- block elements group 13 (boron family).
- P-block elements.
- Biomolecules.
- Chemistry in everyday life.
- Haloalkanes and haloarenes.
- Polymers.
- Organic compounds containing nitrogen.

## **Karunya University KEE 2022 Exam Syllabus – Mathematics**

- Averages.
- Use of Tables and Graphs.
- Computation of Whole Numbers.
- Problems on Trains.
- Ratio and Proportion.
- Profit and Loss.
- Time and Work.
- Percentages.
- Mensuration.
- Number Systems.
- Problems on Ages.
- Time and Distance.
- Interest.
- Discount.
- Decimals and Fractions.
- Fundamental arithmetical operations etc.
- Number Systems.
- Computation of Whole Numbers.
- Decimals and Fractions.
- Relationship Between Numbers.
- Fundamental Arithmetical Operations.
- Percentage.
- Ratio & Proportion.

- Profit & Loss.
- Simple Interest.
- Average.
- Discount.
- Partnership.
- Time & Work.
- Time & Distance.
- Use of Tables and Graphs.
- Mensuration.

## **Karunya University KEE Entrance Exam Syllabus – Biology**

- Biotechnology
- Plant Physiology
- Cell Biology & Genetics
- Biology in Human Welfare
- Human Physiology
- Applied Biology
- Environment Science
- Modern Genetics
- Microbiology