

# SYLLABUS FOR KERALA CEE ENGINEERING

## PHYSICS

### Unit 1 Introduction and Measurement

**Physics** Scope and excitement, Physics in relation to science, society and technology inventions, names of scientists and their fields, nobel prize winners and topics, current developments in physical sciences and related technology. Units for measurement – systems of units, SI units, conversion from other systems to SI units. Fundamental and derived units. Measurement of length, mass and time, least count, e.g., in measuring instruments (vernier calipers, screw gauge, etc.), dimensional analysis and applications, order of magnitude, accuracy and errors in measurement, random and instrumental errors, significant figures and their basic principles.

### Unit 2 Description of Motion in One Dimension

**Objects in Motion in One Dimension** Motion in a straight line, uniform motion – its graphical representation and formulae; speed and velocity – instantaneous velocity; ideas of relative velocity with expressions and graphical representations; Uniformly accelerated motion, position – time graph, velocity – time graph and formulae. Elementary ideas of calculus – differentiation and integration – applications to motion.

### Unit 3 Description of Motion in Two and Three Dimensions

Vectors and scalars, vectors in two and three dimensions, unit vector, addition and multiplication, resolution of vector in a plane, rectangular components, scalar and vector products. Motion in two dimensions – projectile motion, ideas of uniform circular motion, linear and angular velocity, relation between centripetal acceleration and angular speed.

### Unit 4 Laws of Motion

Force and inertia, first law of motion, momentum, second law of motion, forces in nature, impulse, third law of motion, conservation of linear momentum, examples of variable mass situation, rocket propulsion, equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction, lubrication. Inertial and non-inertial frames (elementary ideas). Dynamics of uniform circular motion – centripetal and centrifugal forces, examples – banking of curves and centrifuge.

### Unit 5 Work, Energy and Power

Work done by a constant force and by a variable force, units of work – Energy – kinetic and potential forms, power, work-energy theorem. Elastic and inelastic collisions in one and two dimensions. Gravitational potential energy and its conversion to kinetic energy, spring constant, potential energy of a spring, different forms of energy, mass – energy equivalence (elementary ideas), conservation of energy, conservative and non-conservative forces.

### Unit 6 Motion of System of Particles and Rigid Body Rotation

Centre of mass of a two particle system, generalization to N particles, momentum conservation and center of mass motion, applications to some familiar systems, center of mass of rigid body. Moment of a force, torque, angular momentum, physical meaning of angular momentum, conservation of angular momentum with some examples, e.g., planetary motion. Equilibrium of rigid bodies, rigid body rotation and equation of rotational motion, comparison of linear and rotational motions, moment of inertia and its physical significance, radius of gyration.

parallel and perpendicular components, angular velocity, angular acceleration, angular momentum, angular momentum conservation, parallel and perpendicular components, angular velocity, angular acceleration, angular momentum, angular momentum conservation.

**Unit 7 Gravitation** Universal law of gravitation, acceleration due to gravity (g) and its variation with altitude, depth and Earth, gravitational field, surface of the Earth, escape velocity, self gravitating systems, weightlessness, artificial satellites, stationary satellites, geostationary satellites, proof of a between inertial and non-inertial frames.

**Unit 8 Mechanics Solids** Hooke's law, Young's modulus, lateral strain, Poisson's ratio, rigidity, shear modulus, bulk modulus, applications (bulk modulus of fluids, surface tension, capillary action, atmospheric pressure, surface energy, angle of contact, capillary rise, surface energy, surface tension, viscosity, Stokes law, number, equatorial diameter and speed).

**Unit 9 Heat and Thermodynamics** Kinetic theory of gases, pressure, kinetic energy, rms and most probable speeds, internal energy, equipartition theorem, molar specific heats, degrees of freedom, mean free path, Maxwell's distribution of molecular speeds, Boltzmann's constant, equipartition theorem, internal energy, enthalpy, first law of thermodynamics, work done in various thermodynamic processes, second law of thermodynamics, Carnot cycle, Carnot engine, Clausius statement, Kelvin-Planck statement, entropy, entropy change, Clausius inequality, applications to heat engines, heat pumps, refrigerators, air conditioners, heat engines, Carnot cycle, Carnot engine, Clausius statement, Kelvin-Planck statement, entropy, entropy change, Clausius inequality, applications to heat engines, heat pumps, refrigerators, air conditioners.

# Kerala Engineering Entrance Examination 2012 Question Paper

**Xiang Xie**



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