



Physics Entrance Exam Guidelines

Description

This exam is designed for the students willing to enroll in the faculty of public health and in the faculty of sciences at Jinan University. If the applicant passes the exam with at least 60% they can directly register the General Physics course required for their first year of study. If they fail the exam, they should register the Remedial Physics course to help them develop the fundamental concepts from the most elementary ideas of physics.

Contents

1. Mechanics

Energy
Linear Momentum
Angular Momentum
Mechanical Oscillations
Forced Oscillations – Resonance

2. Electricity

Electromagnetic Induction
Self-Induction
Alternating Sinusoidal Current
Transformers

3. Aspects of Light

Diffraction
Interference
Photoelectric Effect

4. Atom, Nucleus and Universe

The Atom
Atomic Nucleus
Radioactivity
Nuclear Reactions