

Physics 12

Condensed Course Syllabus

Unit 1 Introductions

Chapter 1 Preparation and Tools of the Physicist

Unit 2 Mechanics

Chapter 2 Kinematics in One Dimension

Chapter 3 Kinematics in two dimensions

Unit 3 Forces and Circular Motion

Chapter 4 Dynamics and Newton's Laws

Chapter 5 Uniform Circular Motion

Unit 4 Energy and Collisions

Chapter 6 Work and Energy

Chapter 7 Impulse and Momentum

Unit 5 Circular Motion and Electrostatics

Chapter 9 Angular Dynamics

Chapter 13 Electrostatics

Unit 6 Electricity

Chapter 14 Conductors, capacitors, and dielectrics

Chapter 15 Electric Potential

Unit 7 Magnetism and Electromagnetism

Chapter 16 Magnetism

Chapter 17 Electromagnetism

Invigilated Final Exam