

CHAPTER OVERVIEW

Module 1 - Geometrical Optics

The *Module 1: Geometrical Optics* module explores the principles governing light propagation and interaction with various optical systems. Students will study foundational postulates and apply them to understand light behavior through planar and spherical boundaries, including refraction, reflection, and image formation. The module delves into the design and functionality of optical components, including lenses and mirrors. We finish this module by introducing *Matrix Optics*, enabling the systematic analysis of complex optical systems.

This Module contains 5 classes:

[Class 1 - Postulates and Rules in Ray Optics](#)

[Class 2 - Mirrors](#)

[Class 3 - Planar Boundaries, External and Internal Refraction, Total Internal Reflection](#)

[Class 4 - Spherical Boundaries and Lenses](#)

[Class 5 - Matrix Optics and 4f Imaging Systems](#)

[Module 1 - Summary](#)

[Multi-choice questions](#)

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