

| Course Number | Course | Credit hours | Prerequisite |
|---------------|--------|--------------|--------------|
| 0302230 | Optics | 3 | 0300122 |

The nature of light, radiometry, refraction index, ray concept, refraction, reflection on polished and unpolished surfaces, total internal reflection, Huygens' principle, Fermat's principle, prisms and dispersion. Plane and spherical mirrors, image formation. convex and concave mirrors, thin lenses, thick lenses, lens aberrations. wave optics, Young's Double-Slit Experiment, superposition principle, interference, Diffraction, Grating diffraction, polarization.