**Laser Applications**

**Laser properties and their influence on applications:**

Monochromaticity, coherency, intensity, directionality, the focusing properties, laser properties in different applications.

**Industrial applications of lasers:**


**Laser applications in measurements:**

Distance measurements, thickness measurements, angular measurements, vibrations measurements, contamination measurements, angular rotation, others.

**Holography:**

The hologram formation, hologram types, the holography process, Applications of holography.

**laser in communications:**

Laser attenuation in atmosphere, the optical fiber, the electro-optic materials, the laser radar

**Harmonic frequency generation**

**Medical applications**