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**IIT:** IIT Madras

**Department:** Physics

**Semester:** 1<sup>st</sup> Semester

**Course name:** Engineering Physics

**Topic name:** Laser Physics

**Outline:** Basic physics of laser action is introduced and the differences between ordinary light and laser are highlighted. The working principles of a few commonly used laser systems are explained. Important applications of lasers in Science, technology, medicine and Industry are outlined with the principle used and the scope.