

17/10/18

Unit - 5

Fibre Optics & Laser

* **Laser** :- The word laser stands for "Light Amplification by Stimulated Emission of Radiation", used to produce a strong, monochromatic and highly coherent beam of light.

Characteristics of Laser :-

- 1) **Monochromaticity** :- The laser produces light of a single wavelength, i.e. the line width associated with laser beam is extremely narrow.
- 2) **Directionality** :- Laser beam is highly directional.
- 3) **Coherence** :- Laser is coherent spatially and temporally coherent to an extraordinary degree.
- 4) **Brightness** :- Laser beam is highly intense as compared to ordinary source of light. That is why it can be used for such operations as welding which involves reaching high temperatures.

* Basic Concepts of Laser :-

- Absorption of Radiation
- Spontaneous Emission
- Stimulated Emission
- Population Inversion
- Pumping

Engineering Physics Laser Notes

RJ Alexander



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