

Course No : 1 Lasers

Objective :

- 1) Lasers are ideal tools when it comes to processing materials quickly and efficiently
- 2) They can be used for cutting marking engraving, drilling & structuring purpose
- 3) High quality objective lenses and being expanders laser material processing.

Outcomes:

- 1) Expected course outcomes upon completion of this course, the student will be cognitive level
- 2) Discuss the importance & fascinating area of interference with many experiment associated with it

Opportunity:

1. Laser range finding
2. Bar code readers
3. Laser surgery
4. Holographic Imaging
5. Laser Spectroscopy
6. Laser Material Processing

Fees : Unpaid Courses.

Certificate details :

Certificate courses will be given to the students by the Department of Physics, TTWRDC, W, Medak

Course contents :

- 1) **laser:-** Introduction, properties, spontaneous & stimulated emission, theory of laser action, Einstein's coefficient light amplification, characterization, of laser beam.
- 2) **Type of lasers:-** He-Ne laser semiconductor laser, Ruby laser, Co2 Laser, N2 Laser, Diode laser.

Book Recommended:

1. Laser and non laser optics B.B. Loud willey eastern limited
2. A text book of optics : Brijlal & Subraymanyam S. Chand & Co.

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