

Subject: NON CONVENTIONAL MANUFACTURING
L-T-P : 3-1-0

Sub Code: 02 1617
Credit : 4

- 1. Introduction: Limitation of conventional manufacturing processes, need of unconventional manufacturing process and its classification. Lecture: 2**
- 2. Unconventional machining process: Principle and working and applications of unconventional machining process such as electro discharge machining, electrochemical machining, ultrasonic machining, abrasive jet machining etc. Lecture: 12**
- 3. Unconventional welding process: Principle and working and applications of unconventional welding processes such as laser beam welding, electron beam welding, ultrasonic welding, plasma arc welding. Lecture: 12**
- 4. Explosive welding, cladding etc. under water welding, metallising. Lecture: 4**
- 5. Unconventional forming processes, principle, working and applications of high energy forming processes such as explosive forming, electromagnetic forming, electro-discharge forming, water hammer forming, explosive compaction etc. Lecture: 12**

Text Books:

- 1. Manufacturing Technology by P.N.Rao**
- 2. Production Technology by R.K.Jain**