Workshop Practice

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Course Code: WP01

- * This course is designed to introduce students to the fundamental of Workshop practice for the design of different products required in research and laboratory purpose.
- ❖ To provide machine experience in lathe, shaping and milling machine operations
- ❖ To provide machine experience in welding fabrication techniques.
- ❖ To teach bench work for fitting for different application.
- Unit 1 : Lathe Machine : Different lathe operation such as- Lathe operation, Plain turning Step turning
- Unit II : Milling Machine : Different Milling operation such as- Cube machining, Step machining
- Unit III : Shaping Machine : Different shaping operation such as- Cube machining, Step machining
- Unit IV : Arc Welding : different welding joints such as- welding practice, Butt joint,
- Unit V : Bench work for fittings : different bench work practices such as- Filing, Filing with hacksaw cutting, Square cutting. Step cutting

Outcome:

- ❖ Learned about the fundamental of mechanical operation such as (a) lathe (b) milling (c) shaping
- Understanding the practical knowledge on welding techniques
- Learned bench work practice for
 (a) filing (b) hacksaw cutting (c) square cutting etc.,
- Students would gain in workshop technology to designing and making new products that's unavailable in the market.

Reference Books:

- Kumar: Trade turnership theory and practice (New Heights , New Delhi, 1996)
- 2. R. S. Khurmi, J. K. Gupta: Theory of Machines (Eurasia Publishers, New Delhi, 2013)
- 3. H. S. Bawa: Workshop Technology (Tata Mc Graw-Hill, 1995)
- 4. S. K. Hajree Chaudhary: Workshop technology (Media Promoters and Publishers Pvt. Ltd,1999)