

## **BME452 Manufacturing Process Lab**

### **LIST OF EXPERIMENTS**

1. Bolt (thread) making on Lathe machine.
2. To study of a single point tool and its generation on a grinding machine
3. To produce spur gear out of given work piece using milling machine
4. To perform plain surface grinding on the given work piece to the required dimension.
5. Making of a V-block on shaper machine.
6. To perform the operations such as drilling, and tapping using drilling machine
7. Making of Lap Joint by Oxy-Acetylene Gas Welding Method.
8. Making of Butt joint single V groove by TIG (Tungsten Inert Gas) welding process
9. To prepare a Green sand mold (with core) from the given pattern.
10. To melt and pour metal into the mold and prepare castings.

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**LIST OF EQUIPMENTS**

S No	Machine
1	Grinder machine
2	Vertical Milling machine-1
3	Horizontal Milling machine-2
4	Shaper machine-1
5	surface-grinding machine-1
6	Tool grinding machine-2
7	Wood Working Lathe-3
8	Furnace-2
9	Drilling machine-1
10	Gas welding setup-1
11	MIG welding setup-1
12	TIG welding setup-1