

LIST OF EXPERIMENTS
1st & 2nd Semester

CARPENTRY SHOP

1. To prepare Half Lap Joint.
2. To make a simple Mortise and Tenon joint.
3. To make a Mortise Tenon joint 45 Deg.
4. To make a Habled or Lap DoveTail Joint.
5. To make a Common Multiple Joint.

LIST OF EXPERIMENTS
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MACHINE SHOP

- 1.To make a job by using Facing, Plain Turning, Step Turning and Chamfering as per drawing on Lathe Machine.
- 2.To make a job by using Facing, Plain Turning, Step Turning, Grooving, Taper Turning, Knurling, V shape threading And Chamfering on Center Lathe.
- 3.To make a job with Facing, Plain Turning, Step Turning, Grooving, Chamfering, Threading, Gear Cutting, Finishing Operations as Per drawing by using Center Lathe and Milling Machine.

LIST OF EXPERIMENTS

1st & 2nd Semester

WELDING SHOP

- 1.To make a Butt Joint with the help of Arc Welding.
- 2.To make a Butt Joint with the Gas Welding.

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BLACK SMITHY

- 1. To make a Pocker from M.S. Rod.**
- 2. To make a Pipe Hook from M.S. Rod.**

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SHEET METAL SHOP

- 1. To make a J / Seam Joint.**
- 2. To make a Funnel of given size with the help of J / Seam joint.**

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ELECTRICAL SHOP

- 1. To wire up a circuit of one Lamp and one Switch (C.T.S. or Batten wiring) P.V.C casing capping wiring.**
- 2. To wire up a circuit of one Lamp and one 3/5-Pin Wall Socket by P.V.C casing capping wiring .**
- 3. To make a Straight Joint of V.I.R. or P.V.C. Wire 1/18 S.W.G.**
- 4. To make a TEE JOINT of V.I.R. or P.V.C.18” S.W.G.**
- 5. To Solder the joints.**
- 6. Practice of soldering on PCB using Electronic Components.**

LIST OF EXPERIMENTS

1st & 2nd Semester

FITTING SHOP

- 1. Filing Practice.**
- 2. Side Square Fitting.**
- 3. Tapping Practice.**

LIST OF EXPERIMENTS

1st & 2nd Semester

FOUNDRY SHOP

- 1. To prepare a Mould of a Gear Pattern.**
- 2. To prepare a Mould of a Wheel Cock Pattern.**
- 3. To prepare a Mould of a Table Lamp Base Pattern.**
- 4. To prepare a Mould of a Table Lamp Base (2nd type) Pattern.**

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

CARPENTRY SHOP

1. To make a Haunched Mortise & Tenon Joint.
2. To make a Dove Tail Joint.
3. To make a Single Miter Mortise And Tenon Joint.
4. To make a Secret Screw Sliding Joint.

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

WELDING SHOP

1. **To make a Lap Joint by Arc Welding.**
2. **To make a Lap Joint by Gas Welding.**

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

SHEET METAL

1. To make a Sheet Metal Box of Given Size.

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

Machine shop

1. **To make a job as per drawing (B.S.W thread and Spur Gear cutting) by using Center Lathe and Milling Machine.**
2. **To make a job as per drawing (Dove tail cutting) on shaper and milling machine.**
3. **To make a job as per Drawing (Square groove and Spline cutting)**
4. **To make a job as per drawing 3/4" B.S.W bolt by using Centre Lathe and Milling Machine.**

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

FITTING SHOP

1. **Square Fitting**
2. **Square in Square Fitting**
3. **Arrow Fitting**

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

FOUNDRY SHOP

1. **To prepare a Mould / Casting of a Sewing Machine Wheel pattern.**
2. **To prepare a Mould / Casting of a Washing Machine Impeller pattern.**
3. **To prepare a Mould / Casting of a Spindle Wheel pattern.**
4. **To prepare a Mould / Casting of a Crank pattern.**
5. **To prepare a Mould / Casting of a Bearing Cover pattern.**

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

ELECTRIC SHOP

1. To Control Two lamps in series by P.V.C. casing capping wiring/batten wiring.
2. To wire up a circuit of stair case point by P.V.C. casing capping wiring/batten wiring.
3. To make an Extension Board.
4. To make a series Testing Board.

LIST OF EXPERIMENTS OF VOCATIONAL TRAINING

BLACKSMITHY SHOP

1. To make a Cube from M.S.Rod.
2. To make a Hexagonal chisel from M.S.Rod.
3. To make an Octagonal Punch from M.S.Rod.

LIST OF EXPERIMENTS OF MANUFACTURING PROCESS

3rd AND 4TH Semester

MACHINE SHOP

1. To grind single point and multipoint cutting tools and to prepare introductory report on cutting inserts.
2. To determine cutting forces with dynamometer for operation.
3. To prepare a job of spur gears by the use of milling machines.

FOUNDRY SHOP

1. To determine grain fineness number, clay content and moisture content of given sample of moulding sand.
2. To Prepare a specimen of moulding sand on a standard Rammer and to carry out following tests:
 - a) Tensile, Compressive and transverse strength
 - b) Mould Hardness
 - c) Shatter index
 - d) Permeability

WELDING SHOP

1. To study the effect of process parameter of MIG Welding (Voltage, wire feed, gas flow) on welding of Mild steel sheet.
2. To study the effect of process parameter of TIG welding (Pulse, Gas flow, current) on welding of Stainless steel and Mild steel sheets.