

# Production Engineering Lab

The Production Engineering Lab focuses on the study and application of manufacturing processes and systems. It is equipped with CNC machines, automated assembly lines, and robotic arms. Students learn about modern manufacturing techniques, quality control, and production planning. The lab provides hands-on experience with computer-integrated manufacturing (CIM) and industrial automation, preparing students for careers in advanced manufacturing and production management.

## LABORATORY DETAILS

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Name of the Laboratory              | <b>PRODUCTION ENGINEERING LAB</b> |
| Carpet Area                         | <b>534.96 m<sup>2</sup></b>       |
| No of machines or Experiment Setups | <b>28</b>                         |
| No. of Experiments Conducted        | <b>21</b>                         |

## SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

| <b>Sl. No</b> | <b>Equipment</b>                     |
|---------------|--------------------------------------|
| 1             | LV45 CNC Vertical Milling Machine    |
| 2             | CNC Lathe                            |
| 3             | Universal Milling Machine            |
| 4             | Radial Drilling Machine              |
| 5             | Lathe                                |
| 6             | Tool And Cutter Grinder              |
| 7             | Surface Roughness Tester             |
| 8             | Shaping Machine                      |
| 9             | Slotting Machine                     |
| 10            | Surface Grinder                      |
| 11            | Autocollimator                       |
| 12            | Tool Maker's Microscope              |
| 13            | Calibration Of Water Meter Apparatus |
| 14            | Power Hacksaw                        |
| 15            | Rotameter Trainer                    |
| 16            | Pressure Gauge Test Rig              |

|    |                                      |
|----|--------------------------------------|
| 17 | LVDT                                 |
| 18 | Drilling Machine (Heavy Duty)        |
| 19 | Mechanical Comparator                |
| 20 | Slip Gauge Set                       |
| 21 | Stroboscope                          |
| 22 | Temperature Transducer Trainer Model |
| 23 | Strain Gauge                         |
| 24 | Bench Grinder                        |
| 25 | Ph Meter                             |
| 26 | Whirling Psychrometer                |
| 27 | Sine Bar                             |
| 28 | Sound Level Meter                    |