



**STRAIN MEASUREMENT TRAINER Model - SG - 11**  
(Using Strain Gauge)

WHEATSTONE BRIDGE

EXCITATION SOURCE

INSTRUMENTATION AMPLIFIER

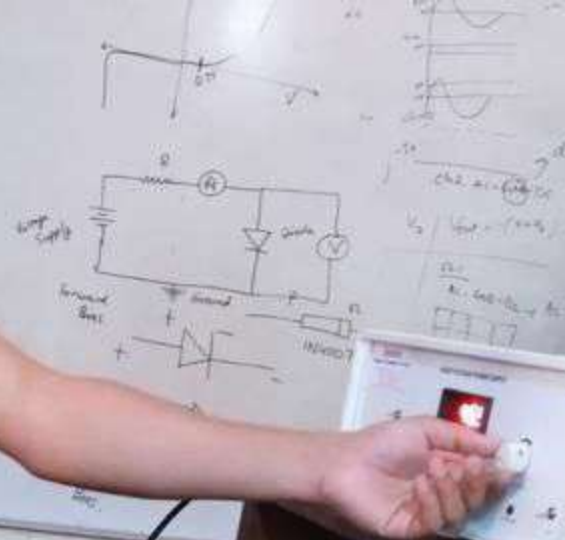
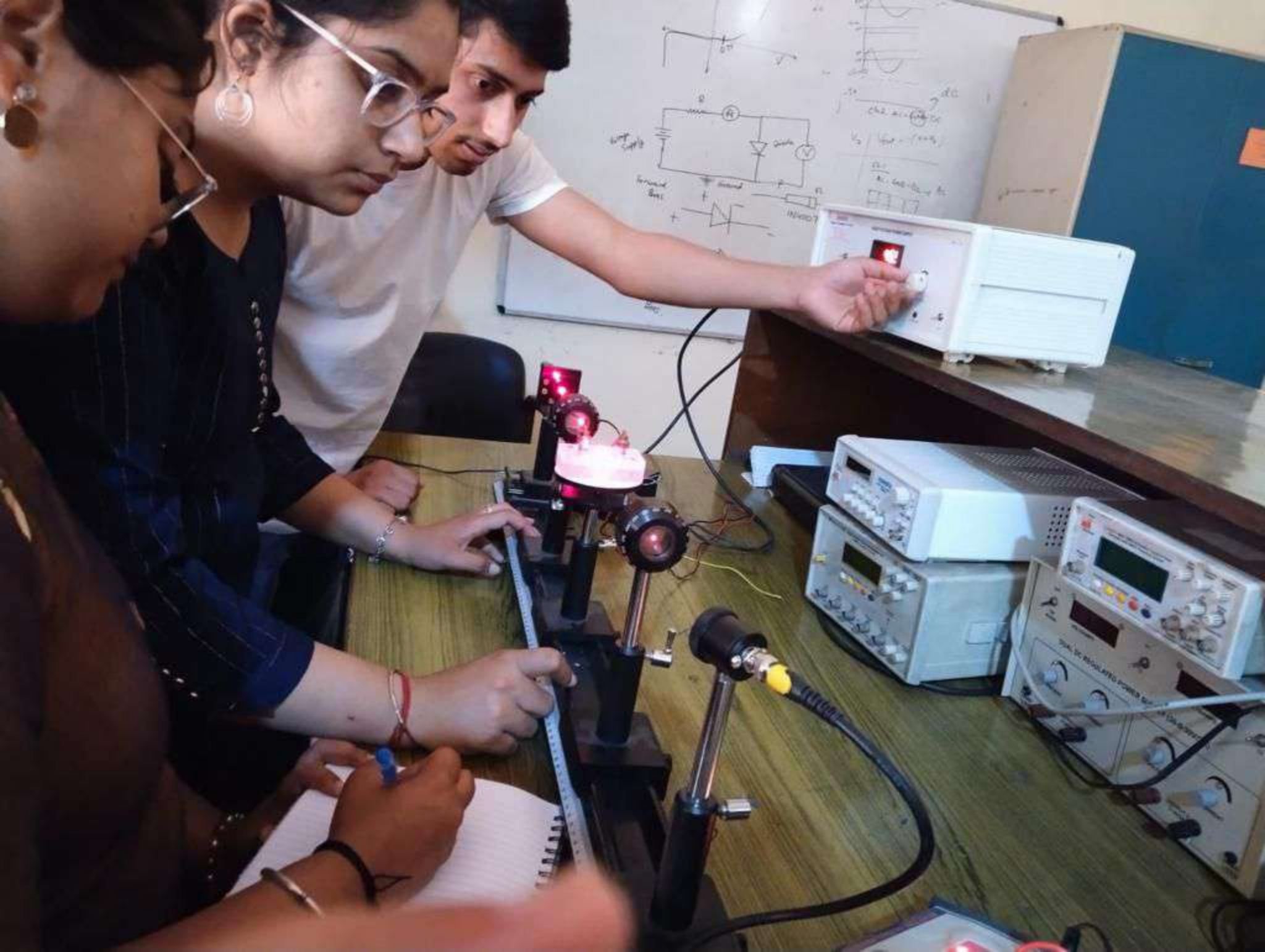
ZERO ADJUST

ADDER

DIMMY GAUGES

**VIJAYANTA** VIJAYANTA TECHNOLOGIES (P) LTD. ROOAKKEE







High Techniques Pvt. Ltd.

### Control System Lab

Block Diagram of a Control System

The diagram shows a feedback control loop. It includes a reference input, a summing junction, a controller, a plant, and a feedback path. The plant is represented by a block with a transfer function. The feedback path includes a sensor and a feedback controller.

**Objective:** To study the effect of feedback on the system response.

**Theory:** Feedback control systems are used to improve the performance of a system. They can reduce the effect of disturbances and improve the system's stability and accuracy.

**Procedure:** 1. Set up the control system as shown in the block diagram. 2. Apply a step input to the system. 3. Observe the system's response and compare it with the theoretical response.

**Results:** The system's response is significantly improved when feedback is applied. The response is faster and more accurate, and the system is more stable.

Hitec 3000A Control System Lab

The board features a breadboard with several integrated circuits (ICs), resistors, and jumper wires. A digital multimeter is connected to the breadboard. The board is labeled "Hitec 3000A Control System Lab" and includes a terminal block for external connections.







### Understanding Dual SIM Mobile Phone



- 1. SIM Card
- 2. Battery
- 3. Camera Lens
- 4. Micro-USB Port
- 5. Earpiece
- 6. Loudspeaker
- 7. Microphone
- 8. Antenna
- 9. SIM Card Holder
- 10. SIM Card
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Understanding Dual SIM Mobile Phone



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