



FACULTY OF ENGINEERING & TECHNOLOGY

Dileep Kumar
Assistant Prof. EE Deptt

TRANSDUCERS

Applications of Transducers

Electromagnetic

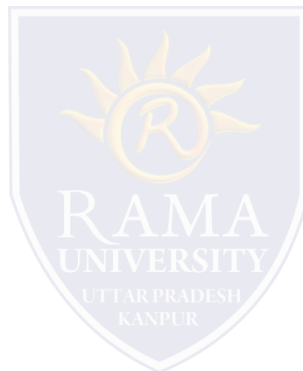
- Antennas
- Hall-Effect Sensors
- Disk Read and Write Heads
- Magnetic Cartridges

Electromechanical

- Accelerometers
- Pressure Sensors
- Galvanometers
- LVDT
- Load Cells
- Potentiometers
- MEMS
- Linear and Rotary Motors
- Air Flow Sensors

Electrochemical

- Hydrogen Sensors
- Oxygen Sensors
- pH Meters



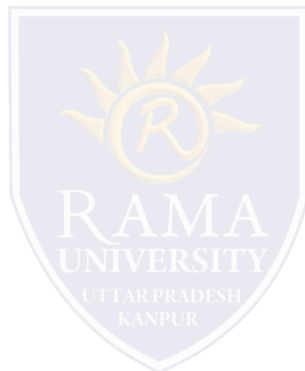
TRANSDUCERS

Electro acoustic

- Speakers (Loudspeakers, earphones)
- Microphones
- Ultrasonic Transceivers
- Piezoelectric Crystals
- Sonar
- Tactile Transducers

Photoelectric

- LED
- Photodiodes
- Photovoltaic Cells
- Laser Diodes
- Photoresistors (LDR)
- Phototransistors
- Incandescent and Fluorescent Lamps



Thermoelectric

- Thermistors
- Thermocouples
- RTD (Resistance Temperature Detectors)

Radio acoustic

- Radio Transmitters and Receivers
- G-M Tube (Geiger-Muller Tube)