# National Institute of Technology Delhi

## राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## इलेक्ट्रानिक्स एवं संचार अभियांत्रिकी विभाग

### Vision

Create an educational environment to prepare the students to meet the challenges of the modern electronics and communication industry through state of art technical knowledge and innovative approaches beneficial to society.

### Mission

- To promote teaching and learning by engaging in innovative research and by offering state-of-the-art undergraduate, postgraduate, and doctoral programs.
- To cultivate an entrepreneurial environment and industry interaction, leading to the emergence of creators, innovators, and leaders.
- To promote co-curricular and extra-curricular activities for the overall personality development of the students.
- Building of responsible citizens through awareness and acceptance of ethical values.

Experimental Setup

Digital Storage Oscilloscope



Strain Gauge Trainer



Soldering Station

Digital Storage Oscilloscope DSOX1202A/ 70Mhz, 2GSa/s Make- Keysight Technologies
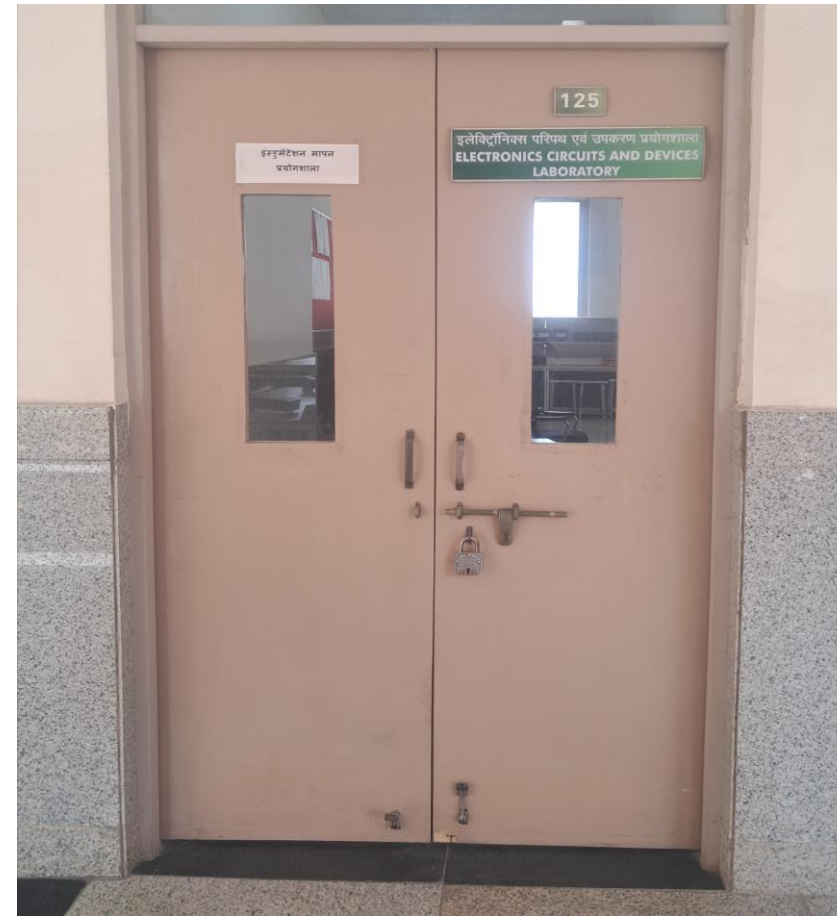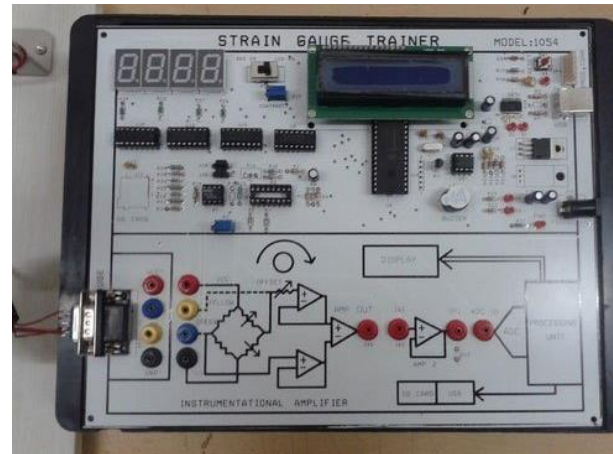


IC Tester



Digital Multimeter

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### इलेक्ट्रॉनिक उपकरण और सर्किट प्रयोगशाला | Electronic Devices and Circuits Laboratory



Function Generator



Multi-Channel DC Power Supply & Bread Board Trainer



Handheld LCR Meters

## इलेक्ट्रॉनिक उपकरण और सर्किट प्रयोगशाला | Electronic Devices and Circuits Laboratory



Cathode Ray Oscilloscope (CRO) Scientech 801C, 30MHz (2 Channel)



Digital Storage Oscilloscope Infinivision DSOX2024A/ 200Mhz, 2GSa/s Make-Keysight Technologies



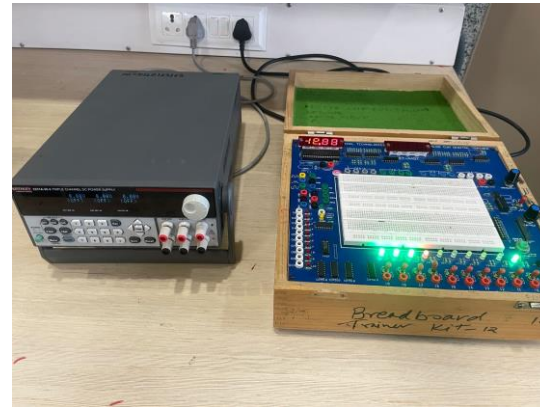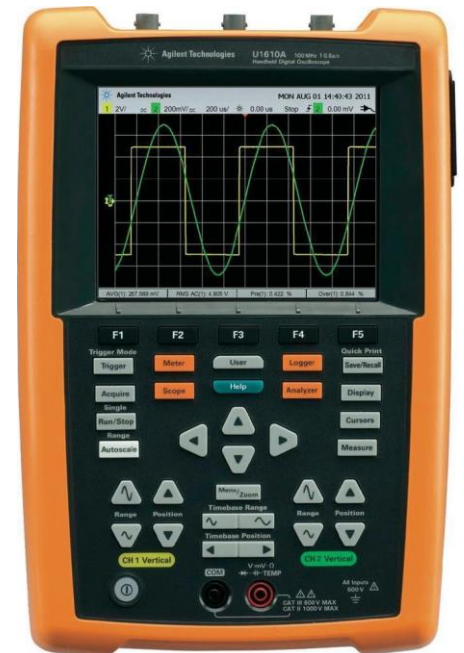Digital Storage Oscilloscope (Handheld) U1620A, Agilent Technologies 200Mhz, 2GSa/s

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Power Supply (Agilent DC Programmable DC Power Supply E3632A) – Agmatel India Pvt Ltd



Function Generator (Single channel Arbitrary) Tektronix AFG3021C 25Mhz/ 250MS/s Convergent Technologies



Mili-ammeter/ Micro-Ammeter

# इलेक्ट्रॉनिक उपकरण और सर्किट प्रयोगशाला | Electronic Devices and Circuits Laboratory



"उत्साही छात्र वैज्ञानिक अन्वेषण में डूबे हुए, प्रयोगशाला के भीतर निर्बाध रूप से प्रयोग कर रहे हैं, जहां ज्ञान और जिज्ञासा मिलती है।"

"Enthusiastic students immersed in scientific exploration, seamlessly orchestrating experiments within the laboratory, where knowledge and curiosity converge."

## इलेक्ट्रॉनिक उपकरण और सर्किट प्रयोगशाला | Electronic Devices and Circuits Laboratory

### List of Instruments/ Equipment/ Software

#### Hardware

| S. No. | Item Description | Qty | Model/ Version | Make |
|--------|------------------|-----|----------------|------|
| 1 | Desktop Computer System (PC), Core i7, RAM- 8GB, HDD- 1TB HDD | 5 | 406 G1 MT Business PC, Monitor- V192 | HP |
| 2 | Advanced analog cum digital trainer kit (Bread board trainer kit) | 12 | NA | Excel Technology |
| 3 | Cathode Ray Oscilloscope (CRO) Scientech 801C, 30MHz (2 Channel) | 14 | Scientech 801C | Scientech Technologies |
| 4 | Digital Storage Oscilloscope (Handheld), 200Mhz, 2GSa/s, Dual channel | 2 | U1620A | Agilent Technologies |
| 5 | Digital Storage Oscilloscope, 70Mhz, 2GSa/s, Dual channel | 15 | DSOX1202A | Keysight Technologies |
| 6 | Function Generator 10Mhz (Single Channel) | 14 | Scientech 4061 | Scientech Technologies |
| 7 | Arbitrary Function Generators, 20Mhz, Dual channel | 1 | EDU33212A | Keysight Technologies |
| 8 | Universal IC Tester | 1 | ET-UICT | Excel Technology |

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### List of Instruments/ Equipment/ Software

### Hardware

| S. No. | Item Description | Qty | Model/ Version | Make |
|---|---|---|---|---|
| 9 | Lcr Meter, Handheld | 1 | U1733C | Keysight Technologies |
| 10 | Digital Multimeter | 15 | Model-616 | Rishabh Instruments |
| 11 | DC Multiple Power Supply | 10 | Scientech 4077 | Scientech Technologies |
| 12 | Programmable DC Power Supply | 10 | E3632A | Agilent Technologies |
| 13 | Triple Output DC Power supply | 14 | 2231A-30-3 | Keithley |
| 14 | Soldering Station 9374 | 1 | Siron -SR-A16008 | Siron |

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## धन्यवाद | THANK YOU

इलेक्ट्रानिक्स एवं संचार अभियांत्रिकी विभाग

**Department of Electronics and Communication Engineering**