National Institute of Electronics and Information Technology, Patna

Name of Course: *Certificate Course in Basic Electronic Product Testing*

Objective:
- To train the students with the knowledge of Basic Electronics, Circuit Building and it's testing.
- To make familiar Electronics Component Testing Process.

Duration: 1 Month.
Batch Size: 30

Eligibility: Diploma/B.Sc./B.Tech/ ITI/ BSc. In Electronics, Electrical, Instrumentation Engineering or its equivalent. (Completed or Pursuing)

Course Content:

Modules:	Instruments and Measuring techniques to be covered.
Module 1	Fundamental of Electrical and Electronics Components resistor, Capacitor, Inductor, Transistor, Transformer, ICs. Connection of Component as per desired circuit. **Sources, Identification, Testing & measurement of various parameters**(like Res, Cap, Induct, PCB board) of Components
Module 2	Use and Working with testing & measuring instruments – CROs, Multimeter, Power supplies, Signal Generator and Power Analyzer and Analysis of waveforms on these. Soldering & desoldering of component. Disposal of electronic Waste.
Module 3	Introduction to PCB Designing process using Orcad software.

∗ These sessions will include Theory Classes, Demo and Practical, assignment and Project.

Registration open at NIELIT Patna website: *http://14.139.202.67/registration*