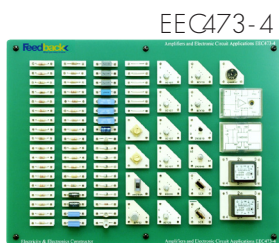


EEC 477 Opto-Electronic devices are widely used in digital communications and analogue systems. The trainer provides the study of a wide range of typical opto-electronic emitters and detectors covering their characteristics and circuit requirements. The individual circuits are assembled on the EEC470 construction deck.



The EEC 471-2 components are used to construct circuits on the EEC470 deck (see previous page), and introduce the student to basic principles of electrical & electronic theory and circuits.



The EEC 473-4 components are used to construct circuits on the EEC470 deck and cover Amplifiers, Electronic circuit applications theory and circuits.

EEC471-2 benefits

- Resistance, Capacitance and Inductance
- Series and Parallel Networks
- AC circuits, Impedance and Resonance
- Reactance, Power, RMS Values
- Electromagnetic Induction and Transformers
- Diodes, Half and Full-wave Rectification
- Transistor Characteristics

EEC473-4 benefits

- Electronic amplifiers, AC and DC Gain
- Negative Feedback and Frequency Response
- Operational Amplifier characteristics
- Transistor Amplifiers
- The Schmitt Trigger
- Voltage Regulators
- Logic Gates and Flip-Flops

EEC477 benefits

- Light emitter characteristics
- LEDs in Series and Parallel
- LEDs in AC circuits
- Flasher circuits
- Photo-detection circuits
- Optocouplers