

SUCCESS FOR STUDENTS AND TEACHERS

New More Powerful Platform Provides Flexible Management and Authoring Tools

Classroom Management

- View students' computer screens as the students work.
- Provide instruction via remote-control access to students' computers.
- View tests, assignments, and overall grades in one grid.
- Automatically compute and record grades.
- Generate any of 20 grade and competency-achievement reports with just a few clicks in the software.
- Review and comment on students' notes in their electronic journals.
- Communicate with students via their electronic journals.
- Set grade weights and competency thresholds.

Authoring and Editing

- Easily integrate and launch other software applications.
- Edit pre- and post-tests, competencies, scenario-based assessments, and grading rubrics.
- Create tests with linked competencies.
- Add information (including hot words) or video and audio enhancements.
- Create new learning units.

TECH-LAB[®] SYSTEM

The multimedia curriculum, classroom-management features, and authoring and editing capabilities are provided through the new Tech-Lab System & Utilities software. Tech-Lab also enables instructors to activate selected media features (e.g., narration, closed captioning, MPEG videos) and to set topic preferences (e.g., prerequisites, quiz aids).

With GradePoint 2020™ electronic classroom manager, teachers can provide individual instruction via remote-control access to a student's computer, so other students do not become distracted.



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Lab-Volt[®]

MK94100-Rev. A

FACET[®]

Fault Assisted Circuits for Electronics Training

The Most Advanced, Hands-On Instructional Tool is Now Even More Effective for Both Instructors and Students



Lab-Volt[®]



STATE-OF-THE-ART SYSTEM ENSURES Multimedia-Rich, Interactive and Hands-on Curriculum

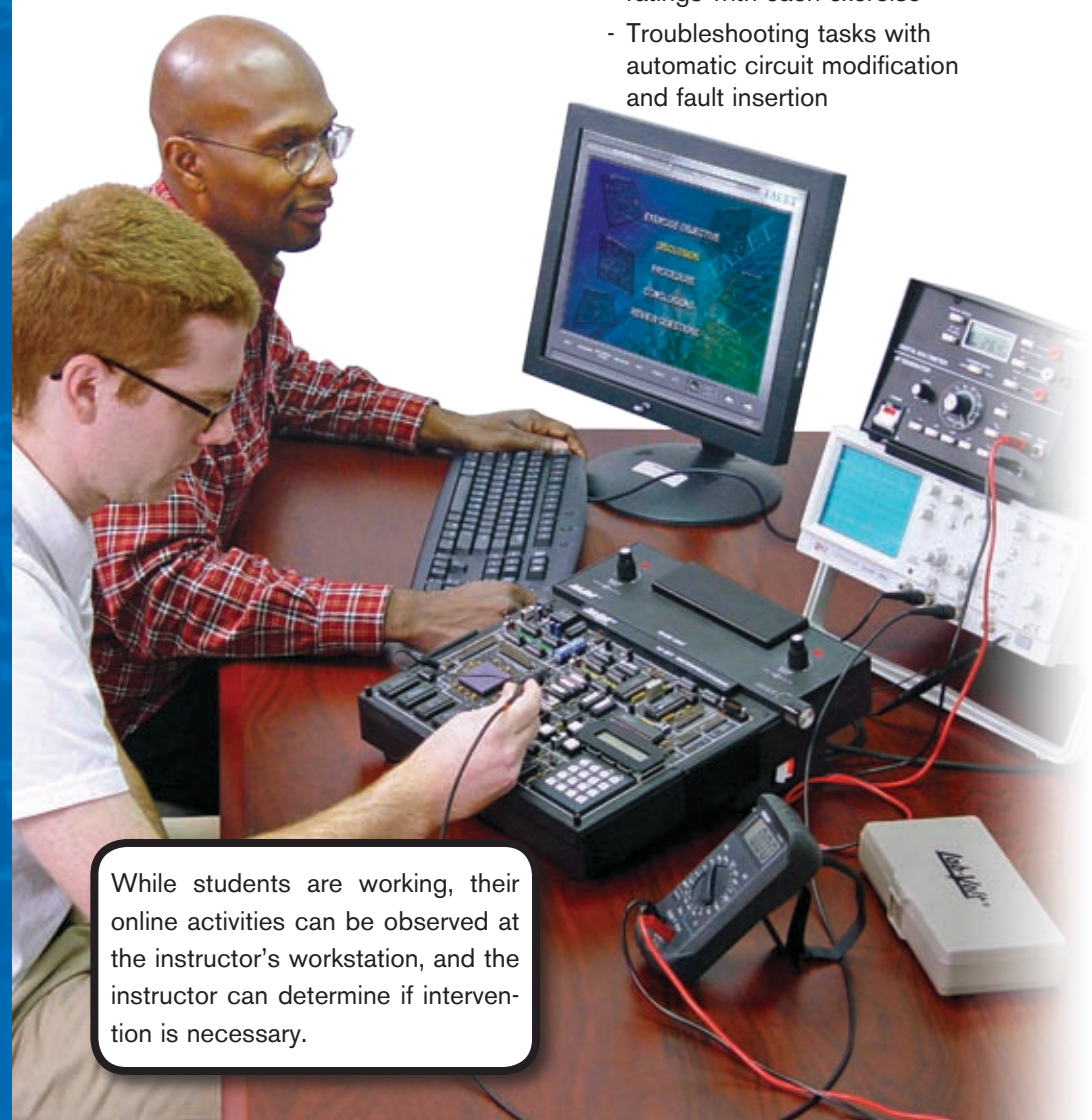
Competency-based curriculum is presented through multimedia-rich, Windows®-based software. The course content and visual features work together to foster students' understanding of analog and digital electronics circuitry. Hands-on activities ensure students' abilities to apply, design, troubleshoot, and test circuits.

Curriculum Content

- Thirty courses cover four key areas of electronics study:
 - Basic Electricity & Electronics
 - Industrial Electronics
 - Digital and Microprocessor Electronics
 - Communications Systems
- Each unit is designed to facilitate students' progressive mastery of the course material with:
 - Outlines of concepts covered
 - General and specific objectives
 - Emphasis on new terms
 - Topic discussions
 - Hands-on activities
 - Comprehensive unit test
 - Review test and competency ratings with each exercise
 - Troubleshooting tasks with automatic circuit modification and fault insertion

Complete List of Technical Modules

- DC Fundamentals
- DC Network Theorems
- AC 1 Fundamentals
- AC 2 Fundamentals
- Magnetism/Electromagnetism
- Semiconductor Devices
- Transistor Amplifier Circuits
- Transistor Power Amplifiers
- Transistor Feedback Circuits
- Power Supply Regulation Circuits
- FET Fundamentals
- Thyristors & Power Control Circuits
- Operational Amplifier Fundamentals
- Operational Amplifier Applications
- Digital Logic Fundamentals
- Digital Circuit Fundamentals 1
- Digital Circuit Fundamentals 2
- 32-Bit Microprocessor
- Digital Signal Processor [DSP]
- Transducer Fundamentals
- Motors, Generators & Controls
- Power Transistors & GTO Thyristors
- Analog Communications
- Digital Communications 1
- Digital Communications 2
- Fiber Optic Communications
- QPSK/OQPSK/DPSK
- Communications Transmission Lines
- Microcontroller
- Breadboard Module



While students are working, their online activities can be observed at the instructor's workstation, and the instructor can determine if intervention is necessary.

EFFECTIVE LEARNING AND

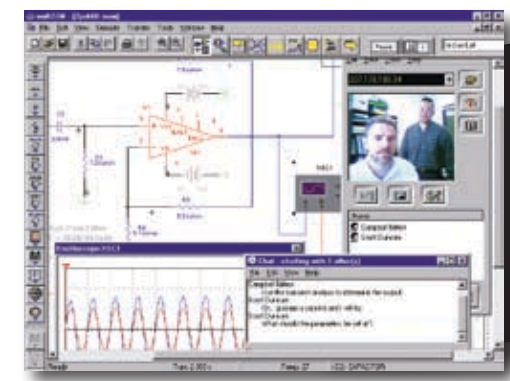
Special Features for the Most Effective Learning

- Graphics, animations, simulation, and interactivity enhance learning speed and retention.
- "Internet Link" Resource provides links to related web sites to broaden students' knowledge.
- Instructor-enabled narration assists students who learn more effectively through auditory means.
- Online journal is available for saving notes from the curriculum activities or the Internet.

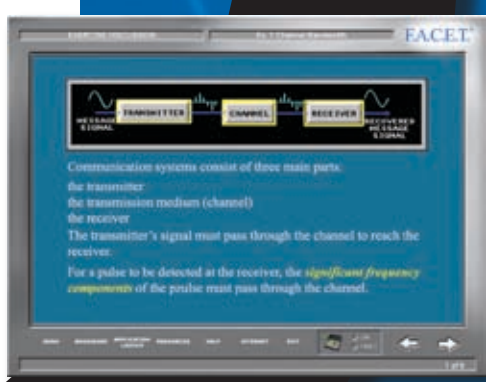
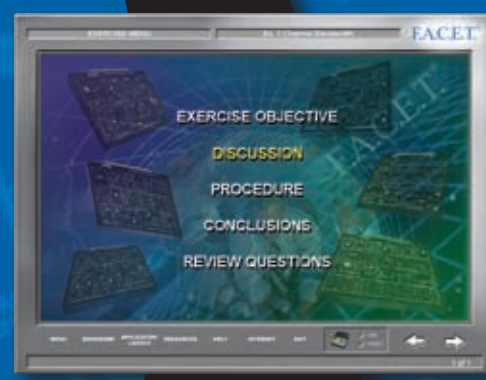
New, State-of-the-Art Simulation Software for Circuit Design & Testing

MultiSIM from Electronics Workbench features easy-to-use Electronic Design Automation (EDA) tools, including:

- Schematic Capture
- Advanced Component Database
- SPICE Simulation
- RF Design Kit
- Comprehensive selection of options for analysis and display of results
- VHDL for fast, accurate, high-performance simulations. Includes a product manager, built-in text editor, and a tool that writes custom shell codes
- Co-simulation for designing central logic in the middle of printed circuit boards, or the interfacing between digital chips and the rest of the board
- Project and Team Design to facilitate information sharing and a tighter design integration



MultiSIM's Internet Design Sharing (shown above) allows colleagues in different locations to work on the same circuit as if they were in the same room, controlling and examining the circuit together in real time.



GUARANTEES SAFETY FOR STUDENTS Durable Hardware, Including Industrial-Grade Components

Safety Features

- Mechanical components withstand thousands of cycles of operation.
- Electrical components withstand any combination of voltage or connections from the base unit.
- Electrical components provide voltage regulation and protection against over-voltage and short-circuit conditions.
- Gold-plated zero insertion force (ZIF) connector technology provides long life for the base units.
- Circuit boards are mounted in sturdy polystyrene trays for easy handling and connection to the base unit.
- Minimal wiring is required, which also saves lab time.
- Active components are mounted in sockets on the circuit board for easy replacement.



FACET base units, training modules, and other equipment are designed and built for unparalleled safety, quality, and ruggedness. All components are industrial-grade to provide a broad range of realistic, hands-on training experiences.