

# Electronics Fundamentals

Learn Fundamental Electronics

Only \$189 ea

Educator Discount Price

## Electronics Fundamentals Module

# EF1

<http://www.gssteched.com/ef1.html>

Part # EF1 Module 1 Includes:

- #SM-EF1B Study Manual - \$59.95
- #TP102 Experiment Parts - \$9.95
- #CB111 Solderless Circuit Board - \$5.95
- #9VB 9V Battery - \$0.79
- #Interactive Software: CD-EF1 - \$99
- #EF1-AB Teacher Answer Book - \$19.95

Students will acquire knowledge about electronics technology, components, and schematic drawing that will be needed to perform solderless electronics assembly and troubleshooting. They will learn to inventory electronic components, read the resistor color code, decipher capacitor values, and use electronic schematics to build useful devices.

**Ideal course or module for introduction to electronics with hands-on computer-aided and competency-based training software.**

- Hands-on experiments are in full-color and students can do them on a solderless circuit board with a 9-volt battery, a long with common electronic components. See listing of lessons below. Each lesson has a quiz that prints a certificate of completion to put in the students portfolio. Teachers and students love this!
- Students work with actual electronic components building circuits on a solderless circuit board just like engineers and electronic technicians.
- Software comes complete with a comprehensive study guide including; diagrams, schematics, pictorials, and worksheet activities. The interactive software included works on windows 95 or better, vista included.
- Students will learn and be highly motivated because of the experiments relevant nature; the experiments beep, buzz, and flash - its fun! This module is exciting with its many hands-on experiments and interactive software which helps the learning process go much smoother and more efficiently.
- Interactive quizzes are on the computer to measure student's progress. Students will love the illustrated and interactive software that dissects components to show how they work - see flowing electrons, speakers move with the current, and more!



Lesson #	Lesson Name	Interactive Software	Reading	Experiment Lab	Worksheet	Quiz
Lesson #01	Basic Circuits	YES	YES	NO	YES	YES
Lesson #02	Resistor Color Code	YES	YES	NO	YES	YES
Lesson #03	Solderless Circuit Board	YES	YES	NO	YES	YES
Lesson #04	Reading Capacitor Values	NO	NO	NO	YES	YES
Lesson #05	How Resistors Work	YES	YES	YES	YES	YES
Lesson #06	How Potentiometers Work	YES	YES	YES	YES	YES
Lesson #07	How Photocells Work	YES	YES	YES	YES	YES
Lesson #08	How Capacitors Work	YES	YES	YES	YES	YES
Lesson #09	How Speakers Work	YES	YES	YES	YES	YES
Lesson #10	How Diodes Work	YES	YES	YES	YES	YES
Lesson #11	How SRC's Work	YES	YES	YES	YES	YES
Lesson #12	How NPN Transistors Work	YES	YES	YES	YES	YES
Lesson #13	How PNP Transistors Work	YES	YES	YES	YES	YES
Lesson #14	Two-Transistor Oscillator	YES	YES	YES	YES	YES
Lesson #15	How the 555 Timer IC Works	YES	YES	YES	YES	YES

# Hands-On Robotics Module

Learn Robotics

Only \$995 ea

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## "Hands-On" Robotics Module

#ETCP-08

<http://www.gssteched.com/etcp08.html>



**Building instructions for all 8 models included with the RCS-6!**

This ideal robot construction set allows you to build a totally custom set of robots, one at a time. You control it with your computer (PC). Hours of fun and learning. Just build it, plug it in, and go! make it do what ever you want to do; golf, dance, pick things up and place them where you want!

Comes with control software, case, parts, PC interface, power supply and Curriculum Binder. Instructors job made easier by quizzes that students take on the computer and then print out the results for their folder or portfolio. Each quiz tells you how long they took and their score with their name, instructors name, and period.

**Module 8: "Hands-On Robotics" Includes the Following Items:**

1. Step-by-Step Curriculum
2. High-resolution images and instruction
3. Computer Quizzes with printouts
4. Full-detailed videos and experiments
5. All necessary parts and connections
6. PC Interface and Cables
7. Power Supply
8. Hand tools
9. Control Software to program robot

Better machines will be built tomorrow by new roboticists trained today. here is a very educational robotics module to help teach students the basics of robotics and robot control.

You will be amazed by what your students are able to create with this versatile tabletop robot construction set which includes software, all ten servo motors, clamps, hardware, pc interface, and tools. Students love this absolutely top-notch robot!

### Module 8 - Hands-On Robotics Module Price

Includes the following items:

- |                                      |          |
|--------------------------------------|----------|
| 1. CD08 Software "Hands-on Robotics" | \$299.00 |
| 2. #SM-801 Study manual with quizzes | \$195.95 |
| 3. #GTE 120000 Trainer Robot         | \$550.00 |
| 4. #ECTP-08 MODULE 8 Complete        | \$995.00 |

- Learn Motion Control, Computer Programming Physics, Robotics, Math, and more!
- Videos Included: Construction and Examples.
- Includes Instructions for 11 models to get you started - build whatever you imagine!
- Easy to Build, Captivating, and Fully Customizable!
- Includes PC Robot Control Software.
- Handy Carrying Case for easy transportation, storage, and clean-up.

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