Mindluster Platform

About the course Electronic Components fundamentals

Electronic Components fundamentals course, in this course youâ€™ll gain a solid foundation in understanding the key components that form the building blocks of all electronic devices. This course starts with the basics of passive components like resistors, capacitors, and inductors, exploring their functions, behavior in circuits, and real-world applications. You will then dive into active components such as diodes, transistors, and integrated circuits (ICs), learning how they control current, amplify signals, and enable complex functionalities in electronic systems. The course emphasizes hands-on experience, allowing you to apply theory through practical exercises and circuit-building activities. You will learn how to identify components, interpret circuit diagrams, and read datasheets to understand component specifications. Each section includes troubleshooting tips, helping you diagnose common issues and ensure reliable circuit performance. We will also cover essential tools and techniques, such as multimeters for testing and measuring component values, and basic soldering skills for assembling circuits. By the end of this course, you will have a comprehensive understanding of electronic components, empowering you to confidently design, build, and troubleshoot basic circuits. Whether you're a beginner in electronics or looking to solidify your knowledge, this course will provide the essential skills needed to work effectively with a wide range of electronic components.

Engineering Category's Courses

Course Lesson(8)

Lesson 1 : **MOSFET Explained How MOSFET Works**

Lesson 2 : **How Potentiometer Works Unravel the Mysteries of How potentiometers Work**

Lesson 3 : **How LED Works Unravel the Mysteries of How LEDs Work**

Lesson 4 : **How Resistor Work Unravel the Mysteries of How Resistors Work**

Lesson 5 : **Transistors Explained How transistors work**

Lesson 6 : **Diodes Explained The basics how diodes work working principle pn junction**

Lesson 7 : **Inductors Explained The basics how inductors work working principle**

Lesson 8 : **Capacitors Explained The basics how capacitors work working principle**

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