

Circuits & Simulation Lab

The Circuits and Simulation Lab is a well-equipped facility where students gain practical knowledge in electrical engineering. With a wide range of state-of-the-art equipment available, students conduct experiments related to electrical fundamentals, circuit theorems, and AC circuits. They work with components like resistors, capacitors, and inductors to understand their behavior and relationships. The lab also provides opportunities to verify circuit theorems such as Thevenin's and Norton's theorems, allowing students to simplify and analyse complex circuits. Additionally, students explore AC circuits, learning about impedance, phasors, and complex impedance. They gain hands-on experience with passive components and study their behavior under various conditions.

Furthermore, the lab provides access to circuit simulation software, enabling students to simulate and analyze circuits in a virtual environment. They can experiment with different scenarios, modify circuit parameters, and observe the effects on circuit performance. This hands-on simulation experience enhances problem-solving skills and deepens their understanding of circuit theory. Instructors provide guidance, expand nations, and foster collaborative discussions among students, creating a conducive learning environment. The circuits and simulation lab plays a crucial role in bridging the gap between theoretical knowledge and practical applications, developing critical thinking, analytical skills, and practical expertise in electrical engineering.



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