Electronics Workshop Lab

The Electronics Workshop Lab is designed to give undergraduate students hands-on experience with the basics of analog and digital electronics. It plays an important role in helping students connect what they learn in the classroom with real-world applications. By working directly with electronic components and lab instruments, students get to build, test, and troubleshoot actual circuits—turning theory into practice in a meaningful and engaging way.

In this lab, students explore a wide range of experiments related to circuit design and analysis. They work with breadboards and digital trainer kits to create both analog and digital circuits, using tools like multimeters, function generators, and DC power supplies. These practical sessions help students understand how components like resistors, capacitors, transistors, and ICs behave in real circuits. The focus is on learning by doing—building logic circuits, observing waveforms, and verifying whether a circuit performs as expected.

Beyond technical skills, the lab also helps students develop confidence in handling tools and solving practical problems. By the end of the course, students are expected to identify common components, measure and analyze circuit behavior, and troubleshoot any issues they encounter. They also learn to follow good lab practices, including safety and careful handling of equipment. Overall, the lab is a key part of their learning journey, preparing them for more advanced electronics courses and real-world engineering challenges.

Lab In charge: Dr. Avinash Ratre

Co-Lab In charge: Mr. Varun Sangwan

Technical Assistant: Mr. Shamsher Singh


Electronics Workshop Lab
Department of Electronics and Communication Engineering
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
DELHI TECHNOLOGICAL UNIVERSITY
BACHELOR OF TECHNOLOGY
PROGRAM OUTCOMES
PO-1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO-2 Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO-3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO-4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO-5 Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO-6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO-7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
PO-8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO-9 Individual and team work: Functi... in diverse teams and in multidis...
PO-10 Communication: Communicate ... engineering community and wi... and write effective reports an... and give and receive clear instru...
PO-11 Project management and financ... engineering and management p... and leader in a team, to manage...
PO-12 Life-long learning: Recognize the... in independent and life-long lea...
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NO ENTRY WITHOUT MASK
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