

Basic Electronics Laboratory

The Basic Electronics Laboratory serves as a foundational platform for undergraduate students to gain practical exposure to the principles and applications of electronic devices and circuits. This laboratory is an integral part of the academic curriculum and is designed to help students bridge the gap between theoretical concepts and real-world applications. In this lab, students are introduced to a wide range of fundamental topics in electronics, including the characteristics and operations of basic components such as resistors, capacitors, inductors, diodes, transistors, and operational amplifiers. They also learn how to use essential electronic instruments like digital multimeters, cathode ray oscilloscopes (CRO), and function generators. Through a structured series of experiments, students develop a deeper understanding of analog and digital circuits, starting from basic diode circuits and transistor amplifiers to logic gates and combinational systems. The laboratory emphasizes circuit construction on breadboards, careful measurement and observation of electrical quantities, and the interpretation of experimental data. By performing these experiments, students enhance their skills in circuit analysis, design, testing, and troubleshooting. The lab also fosters critical thinking and encourages students to relate experimental outcomes with theoretical predictions, promoting a more holistic understanding of electronics. Overall, the Basic Electronics Lab at DTU plays a crucial role in laying the groundwork for more advanced studies in electronics and electrical engineering, and prepares students for practical challenges in both academic projects and professional environments.

Laboratory In charge: Prof. O. P. Verma

Co-In charge: Dr. Rohit Kumar



**Advance Digital
Signal Processing Lab**

Department of
Electronics and Communication
Engineering

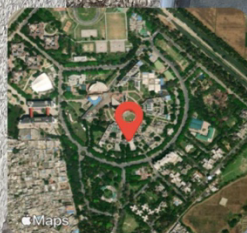
**Basics of Electronics and
Communication Engineering Lab**

Department of
Electronics and Communication
Engineering

LW3 - TF4



GPS Map Camera



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Lat 28.749453, Long 77.117666

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