

**Product Name :**  
F.E.T. Characteristics

**Product Code :**  
NLAB-ELECTRONICSAB420010

**Description :**

F.E.T. Characteristics

**Technical Specification :**

Experimental Training Board has been designed specifically to study the characteristics of a Field Effect Transistor. The board is absolutely self

contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

**Object:**

To study the characteristics of Field Effect Transistor.

1. Measurement of  $I_{DSS}$
2. Plot the static drain characteristics of FET
  - 2.1 Drain Current V/s Drain Voltage Characteristics for different fixed values of  $V_{GS}$
  - 2.2 Drain Current V/s Gate Bias Characteristics for different fixed values of  $V_{DS}$
3. Show that FET work as VVR (voltage variable resistance).
4. Calculate the FET parameters (drain dynamic resistance  $r_d$ , mutual conductance  $g_m$ , and amplification factor  $m$ ) at a given operating point.

**FEATURES**

The Board consists of the following built-in parts:

1. 0 to 20V D.C. at 50mA, continuously variable Power Supply.
2. 0 to 12V D.C. at 50mA, continuously variable Power Supply.
3. Two Digital Voltmeter DC 3½ Digit having range of 0- 20V.
4. Digital Current meter DC 3½ Digit having range of 0- 20mA
5. One Field Effect Transistor.
6. Adequate no. of other electronic components.
7. Mains ON/OFF switch, Fuse and Jewel light.
8. The unit is operative on 230V ±10% at 50Hz A.C. Mains.
9. Adequate no. of patch cords 4mm length 50cm.

Weight : 3 Kg. (Approx.)

Dimension : W 340 x H 110 x D 210

## Naugralabequipments

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