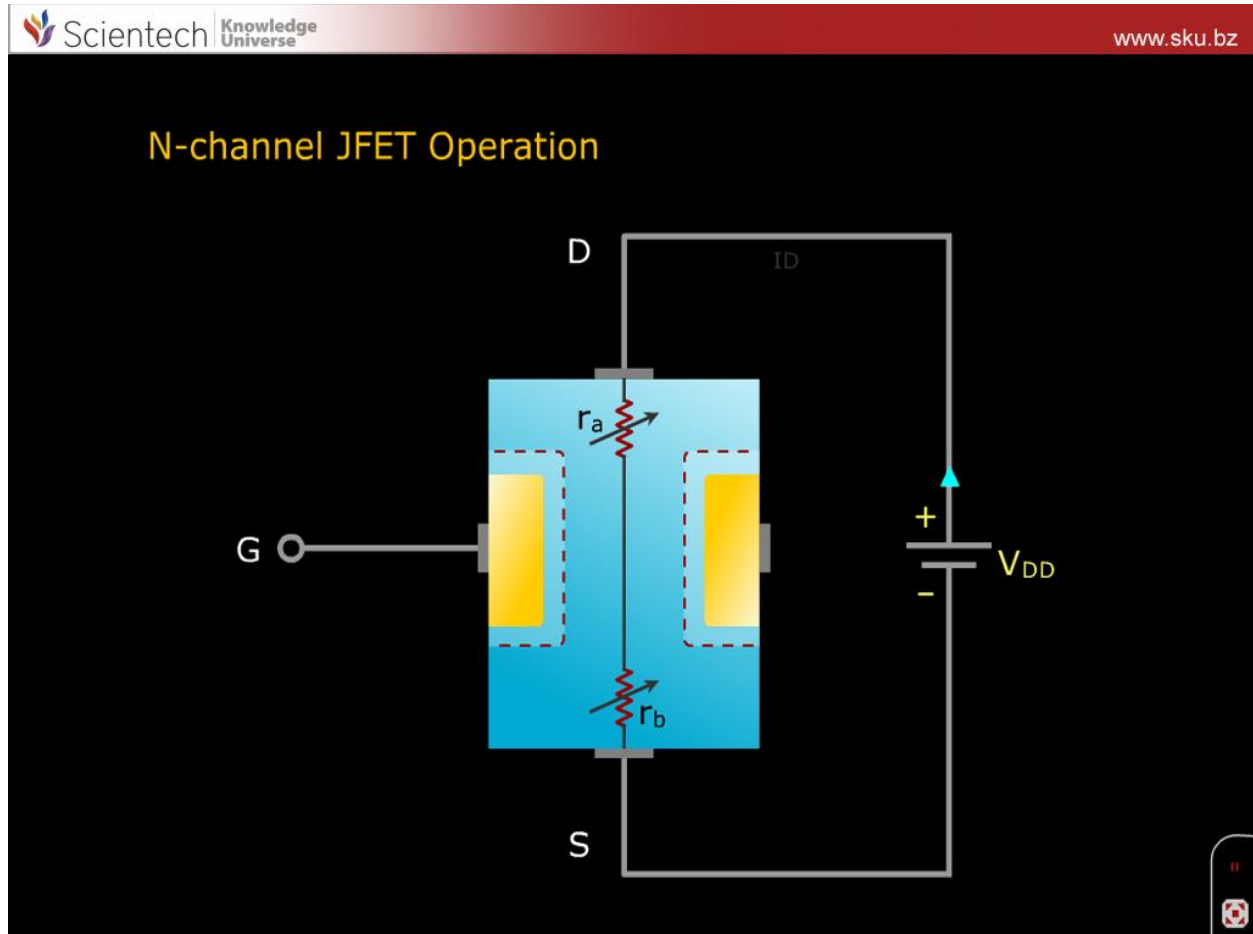


SKU-Electronic Devices

The goal of Electronic Devices is to provide basic information of Electronic devices from material to component used. It gives the detail about component and element used in electronic devices. This courseware develops the basic concept of electronic devices by use of analogies, animations and examples.



Topics covered in SKU-Electronic Devices:

Semiconductor

The objective of this unit is to learn about semiconductor, their types, Energy Band, PN junction Diode, V-I Characteristics, Diodes Applications as rectifier, Wave Shaping Circuit like Clipper and Clamper.

Optoelectronic and Miscellaneous Devices

The objective of this unit is to learn about Diodes, their characteristics and applications. Optoelectronic devices such as photodiodes, phototransistor, solar cell, seven segment display, photoconductive cell, thermistor, optocoupler.

Bipolar Junction Transistor:

The objective of this unit is to learn about Bipolar junction transistor construction, basic operation, current components and equations, active, cutoff and saturation region, power dissipation in transistor ($P_{dmaxrating}$), Unijunction transistor (UJT): Principle of operation, characteristics.

FET Construction:

The objective of this unit is to learn about FET construction, n-channel and p-channel FET, characteristics, Parameters, Equivalent model and voltage gain, Enhancement and depletion MOSFET and its characteristics, analysis of FET in various configurations.

Thyristor Family:

The objective of this unit is to learn about Thyristor, SCR(Silicon controlled rectifier),It's characteristics, Transistor analogy, Turn-on turn-off mechanism, protection circuits, Introduction to diac, Triac, Power MOSFET, IGBT and GTO.

Print Shots of SKU-Electronic Devices:

