Electronic Circuits Elektronik Devreler

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Course Details

• Course Code : 0112622

• Course Name: Electronic Circuits

(Elektronik Devreler)

• Instructor : Nizamettin AYDIN

Gökhan BİLGİN

Assesment

• Midterm 1 : 20%

• Midterm 2 : 20%

• Homework : 20%

• Final : 40%

Course Outline

ELECTRICAL CICRUITS AND COMPONENTS

Basic Electrical circuits and components, Measurement of Voltages and Currents, Resistance and DC Circuits, Capacitance and Electric Fields, Inductance and Magnetic Fields, Alternating Voltages and Currents, Power in AC Circuits, Frequency Characteristics of AC Circuits, Transient Behaviour

ELECTRONIC SYSTEMS

Electronic Systems, Sensors, Actuators, Amplification, Control and Feedback, Operational Amplifiers

SEMICONDUCTOR DEVICES AND CIRCUITS

Semiconductors and Diodes, Diode Applications, Bipolar Junction Transistors, Filed-effect Transistors, Power Electronics, Operational Amplifiers, Digital Systems

Some recommended books...

- Electronic Devices and Circuit Theory by Robert L. Boylestad and Louis Nashelsky
- Electronics A Systems Approach by Neil Storey
- Electronic Circuits Fundamentals & Applications by Michael H. Tooley
- The Art of Electronics by Paul Horowitz and Winfield Hill
- Schaum's Outline of Electronic Devices and Circuits by Jimmie J. Cathey
- Electronic Devices and Circuits by Theodore F. Bogart, Jeffrey S. Beasley, and Guillermo Rico

...Some recommended books

- Electronic Devices and Circuits: Discrete and Integrated by Denton J. Dailey
- Electronics Fundamentals: Circuits, Devices & Applications by Thomas L. Floyd and David Buchla
- Electronic Devices and Circuits I by A.P.Godse and U.A.Bakshi
- Electronic Devices: Circuits and Applications by William D. Stanley
- Electronic Devices and Circuits by David A. Bell
- Microelectronic Circuits by Adel Sedra and Kenneth Smith