

Al-Quds University
Faculty of Engineering
Department of Electronics Engineering

Electronics III (EE419)
Second Semester 2000/2001

Instructor : Ali Jamous
Lectures : Sat., Mon., Wed. 11:00 12:00
Office Hours : Sat., Mon., Wed. 10:00 11:00 ; Sun. 10:00-11:00
Prerequisite : Electronics II (EE321)

References :

- Electronic devices, Thomas L. Floyd
- Electronics devices and circuit theory, R. L. Boylestad
- Electronic principles, A. P. Malvino
- Microelectronics, Millman
- Electronic circuits, Donald L. Schilling
- Digital integrated circuits, Thomas A. Demassa

Course Outline :

- Thyristors, Diac and Triac, Uni-Junction Transistor (UJT), Phototransistor, Optical Couplers and other devices
- Multivibrators(Monostable, Astable, Bistable), Timers and Schmitt triggers
- Oscillators(Theory, Oscillators with RC and LC Feedback Circuits, Nonsinusoidal Oscillators), Voltage Control Oscillators, Phase Locked Loops and Applications
- Analog-to-Digital (A/D) and Digital-to-Analog (D/A) converters
- Digital Integrated Circuits and Logic Families (RTL, DTL, TTL, ECL and CMOS Logic)

Grading :

First Hour Exam	25%
Second Hour Exam	25%
HomeWorks & Quizzes	10%
<u>Final Exam</u>	<u>40%</u>
Total	100%