



# FACULTY OF ENGINEERING COMPUTER ENGINEERING DEPARTMENT

## Syllabus for COM234 Electronics

<b>Instructor:</b>	Asst.Prof.Dr. O. Tolga Altınöz
<b>Office:</b>	205
<b>Phone:</b>	(0312) 203 3300
<b>E-mail:</b>	taltinoz@ankara.edu.tr

<b>Faculty</b>	Engineering	<b>Department</b>	Computer Engineering
<b>Course Code &amp; Number</b>	COM234	<b>Course Title</b>	Electronics
<b>Level of Course</b>	BSc	<b>Course Credit Hours / ECTS</b>	(3+0+0) 3 / 5 ECTS
<b>Time Schedule</b>	Wednesday (13:00 - 16:00) Friday (09:30-12:15)	100% Eng 30% Eng and (2003-2009)	

<b>Text Book and Reference Books</b>	<p><i>Text Book:</i> Lecture Notes and Chapters at Reference Books</p> <p><i>Reference Books:</i> 1) J.W. Nilsson and S.A. Riedel, "Electric Circuits," Prentice Hall, 10<sup>th</sup> Edition. 2) R.L. Boylestad and L. Nashelsky, "Electronic Devices and Circuit Theory," Prentice Hall, 10<sup>th</sup> Edition.</p>
--------------------------------------	--

<b>TENTATIVE COURSE OUTLINE</b>				
<b>Week</b>	<b>Day / Month</b>	<b>Topics</b>	<b>Textbook Reading</b>	<b>Assignments / Exams</b>
1	12.02 14.02	Introduction, Basic circuit elements, Ohm's Law	Lecture Notes and Reference 1 Chapter 1	
2	19.02 20.02	Kirchoff's Current law (KCL), Kirchoff's Voltage Law (KVL)	Lecture Notes and Reference 1 Chapter 2	Problem Solving
3	26.02 28.02	Node Analysis	Lecture Notes and Reference 1 Chapter 3	Problem Solving
4	04.03 06.03	Mash Analysis	Lecture Notes and Reference 1 Chapter 4	Problem Solving
5	11.03 13.03	Thevenin's Theorem	Lecture Notes and Reference 1 Chapter 4	Problem Solving
6	18.03 20.03	Recitation	Lecture Notes and Reference 1 Chapter 4	Problem Solving
7	Midterm Exam (Outline will be arranged based on exact date of the midterm)			Midterm Exam
8	01.04 03.04	Norton's Theorem and Superposition Theorem	Lecture Notes and Reference 1 Chapter 5	Problem Solving
9	08.04 10.04	Diodes	Lecture Notes and Reference 2 Chapter 1 and 2	Problem Solving
10	15.04 17.04	Diode Applications	Lecture Notes and Reference 2 Chapter 3	Problem Solving
11	22.04	Recitation and Bipolar Junction Transistors (BJT)	Lecture Notes and Reference 2 Chapter 4	Problem Solving
12	29.04	Recitation and Bipolar Junction Transistors (BJT)	Lecture Notes and Reference 2 Chapter 5	Problem Solving
13	06.05 08.05	BJT biasing	Lecture Notes and Reference 2 Chapter 5	Problem Solving
14	13.05 15.05	Recitation	Lecture Notes and Reference 1 Chapter 5	Problem Solving
<b>FINAL EXAMS WEEK, (date and time to be announced later).</b> <b>*Recitation hours (if any) may be occupied to complete the planned curriculum</b>				

COURSE ASSIGNMENTS
<b>A. Midterm Exam [30%]</b>
There will be one midterm exam. The grade from midterm is 20% of the total grade.
<b>B. Final [80%] (60 from Written Exam %20 from Lab)</b>
The grade of the written final exam is 80% of the total grade. At final exam one of the question will be graded from Lab and 25p (25*80% = 20%)
<b>B. Lab. [20%]</b>
Attendance to labs is compulsory without any expectation.

## COURSE POLICIES

### I. Attendance



Regular class attendance is expected for all students at the University. You are not required but advised to attend all classes.

Please sign the attendance sheet when you come to the class. Any false signatures will result in zero participation grades for all parties involved.

Your absence will not reduce your attendance rate *if and only if* you have a legitimate reason for missing a class (such as illness, death in family, a traffic accident, etc.). In case of an illness or emergency, you must supply a formal documentation that supports your claim.

### II. Make-up Exams

Make-ups for Midterm Exams will be available *if and only if* you have a legitimate reason for missing the exam (such as illness, death in family, a traffic accident, etc.). In case of an illness or emergency, you must supply a formal documentation that supports your claim.

**There will be no make-up for homeworks. Missed works will result in a grade of zero (0).**

### III. Late Submission Policy

Late submissions will not be graded. There will be *no* make-up for quizzes, homeworks and any assignments. Missed assignments, homeworks and quizzes will result in a grade of zero (0).

### IV. Cheating & Plagiarism

Collaboration is strongly encouraged; however, the work you hand in must be solely your own. Cheating and plagiarism are very serious offenses and will be penalized accordingly by the university disciplinary committee.

Cheating has a very broad description which can be summarized as "acting dishonestly". Some of the things that can be considered as cheating are the following:

- Copying answers on exams, projects and lab works,
- Using prohibited material on exams,
- Lying to gain any type of advantage in class,
- Providing false, modified or forged data in a report,
- Plagiarizing (see below),
- Modifying graded material to be re-graded,
- Causing harm to colleagues by distributing false information about an exam, homework or lab.

All of the following are considered plagiarism:

- Turning in someone else's work as your own,
  - Copying words or ideas from someone else without giving credit,
  - Failing to put a quotation in quotation marks,
  - Giving incorrect information about the source of a quotation,
  - Changing words but copying the sentence structure of a source without giving credit,
  - Copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not.
- ([www.plagiarism.org](http://www.plagiarism.org))

### V. Equipment

Calculator and standard equipments (while paper, pencil, etc.) will be used during the quiz (in class assignment) and exams. The students are responsible from the equipment. Exchanging of equipment is not allowed among all of the activities (exam, in class assignment).

### VI. Disability Support

If you have a disabling condition which may interfere with your ability to successfully complete this course, please contact head of departmentor or Asst.Prof.Dr. Tolga Altinoz (email: [taltinoz@ankara.edu.tr](mailto:taltinoz@ankara.edu.tr)).

**\*\*\* GOOD LUCK \*\*\***