

## LABORATORY INSTRUCTIONS

### PLEASE READ CAREFULLY!

**You are responsible of knowing the laboratory instructions.**

#### **Grading:**

Laboratory performance :	15 %
Reports and preliminary works :	30 %
Midterm examination s:	10 % - 15%
Project work :	20 %
Final examination (experimental) :	10 %

#### **Preliminary Work:**

A complementary preliminary work should be completed before coming to the laboratory. **No student will be allowed to take the lab without submitting the preliminary work at the beginning of the experiment. You cannot take a make-up for that experiment.**

#### **Quizzes:**

There will be no officially announced quiz. However, each assistant can make (**unannounced**) oral and/or written quizzes depending on the performance of his/her group. Possible quiz grades will affect your "*Laboratory performance*" grade.

#### **Report:**

A report about the experiment should be prepared during the experiment and submitted to the assistant before leaving the laboratory. Each team of two students will submit one report including:

- Name of the students
- Name of the assistant
- Date
- Name of the experiment
- The objective of the experiment
- Graphical results and measurements
- Comparison of the results with the expected ones
- Conclusions

The reports should be written on A4 white paper in a neat and tidy manner. The graphs should be plotted on commercial A4 graph paper. The reports should be submitted immediately after the laboratory session; any late reports will not be accepted.

### Midterm Exams:

Two written examinations will be given on the date **announced** by the department. This midterm examinations will include the theoretical and practical concepts covered in the laboratory. The *first* midterm will possible cover the topics related with the first *four* experiments, whereas the **second** one will cover **all** of the experiments.

### Project:

A circuit will be designed and implemented according to the specifications that will be given in the project description. The students will demonstrate the operation of the designed circuits in the laboratory in groups of two. Each group will submit a report.

### Final exam (experimental):

Each student is required to conduct an experiment in the laboratory.

### Schedule:

		<b>Start</b>	<b>Break</b>	<b>End</b>
Morning groups	:	8:40	10:10 - 10:20	12:20
Afternoon groups	:	13.40	15.10 - 15.20	17:20

### Equipments:

Each team has to bring A4 white papers and commercial graph papers and a ruler. Calculator may be used during the quiz and the experiment. The students are responsible from the equipments on their experiment table. The equipments should be checked at the beginning of each laboratory session and in case of any missing equipment, the students should inform their assistants. Exchanging of equipments is not allowed among the tables without the permission of the assistant.

### Syllabus:

**There are 9 experiments. Experiments start on 1st of March with Experiment 1.**

### Attendance:

The students should attend all the experiments. **Those who miss two experiments without any valid excuse (medical report) will directly be graded by FF.**

Not submitting the preliminary work is not accepted as an excuse.

No student will be allowed to take lab in another lab day other than his own for any reason [other than a medical report from the health center of the university (no other health center!)].

**If you have a medical report, you should consult your assistant with a written formal request and your request will be assessed whether you will be given a make-up.**

**Papers indicating that you were at the health center during your experiment time will not be counted as a medical report.**

**IMPORTANT NOTE: EE 202 and EE 212 are co-requisites of this course, you should be taking or you should have passed both courses, in order to take this course.**

**Course web page: <http://www.eee.metu.edu.tr/~ee214/>**