Electronic Circuit I

EG 572EX

11/8/2008 Jyoti Tandukar

Schedule

- **Lecture**
  Sunday 10:15 - 11:55
  Wednesday 1:35 – 2:25
- **Tutorial**
  Sunday 11:55 - 12:45
  Sunday 4:10 - 4:55
- **Lab**
  Wednesday 2:25 - 4:55

Sessional Marks

Class Test	10
Tutorial/Submission	5
Attendance/Performance	5

	20

References

- Allen and Holberg
  CMOS Analog Circuit Design
  Too advanced. The students should not get discouraged for not being able to follow this book properly
- Various books for various topics
- Op-amp and Linear ICs - Coughlin, Driscoll
- Op-amp and Linear ICs - Gayakwad
- Microelectronic Circuits - Sedra and Smith
- Integrated Electronics - Millman and Halkias
- Bogart

Evaluation

- Date for Class Test
  will be announced upon getting academic calendar
- Tutorials and Assignments to be submitted
  will be announced as we progress
- Surprise Tests will be conducted during lecture hours. The performance in the test as well as attendance of the students will be evaluated
- Date for the Retest
  will be announced upon getting academic calendar

Course Introduction

- Semiconductor Devices
  Students learn about diodes, transistors and related circuits
- Electronic Circuit I
  Enhance the knowledge by exposing the students to larger and more complex circuits

Course Introduction (contd.)

- Students have already acquired the concept of op-amp and its simple applications
- Electronic Circuit I deals with various aspects of op-amp in detail including its internal circuitry
- Electronic Circuit I also covers widely applied electronic blocks such as power supplies, power amplifiers and oscillators

Course Introduction (contd.)

- Circuit Theory in Electronics is highly inter-related
- Students are required to possess adequate fundamental knowledge to fully understand this subject
- Refresh understanding of circuit theory by revising topics on diodes, transistors, op-amp, frequency response

Course Introduction (contd.)

- In the lack of sufficient background, this subject may prove to be extremely difficult
- BUT
once you have the foundation, this is one of the most exciting areas of Electronics to explore!