

# PH-218 Analog & Digital Electronics

## Assignment-6 (Due date: 18th April 2011)

**Make a group of 5 students (including yourself i.e. you + 4 students) each and prepare the presentation and give a talk on Tuesday 19<sup>th</sup> April-**

### **Rules of the Game:**

Leader of each group is free to choose his team. It is leader's responsibility to manage his team and distribute the work.

At the end leader has to ensure that each member of his team understands the assigned topic and should be able to present the talk in the class.

Finally leader should present the talk in the class.

Although Gr2, Gr5 and Gr3, Gr6 have the same topic but these two groups must prepare their own presentation and presentation should not be same.

Use standard text/reference books prescribed in syllabus.

Only text-books won't complete the purpose so you have to extensively use the internet to search materials.

Provide proper reference at the end.

### **Gr1: Leader: Joy Prakash Das**

Prepare a power point presentation on Memory –

- (a) Explain what is memory device?
- (b) Different types of memory device?
- (c) Where is the application? (special attention to the computer memory)
- (d) What are the key parameters to evaluate the memory device?

**Gr2: Leader: A Nischal Kumar**

- (a) SRAM memory device, circuit diagram
- (b) Types of SRAM device and their application
- (c) Reading and Writing operation (major emphasis)
- (d) Where we use in computer?
- (e) Current status and major player in the world

**Gr3: Leader: Ravi Kutikuppla**

- (a) DRAM memory device, circuit diagram
- (b) Types of DRAM device and their application
- (c) Working Operation and where we use in computer?
- (d) Current status and major player in the world

**Gr4: Leader: Anurag Pandharpurkar / Pawan**

- (a) ROM memory device
- (b) Different types of ROM device and their application
- (c) Comparison among different ROM devices
- (d) Any other thing you like to add

**Gr5: Leader: Shantanu Mundhada**

- (e) SRAM memory device, circuit diagram
- (f) Types of SRAM device and their application
- (g) Reading and Writing operation (major emphasis)
- (h) Where we use in computer?
- (i) Current status and major player in the world

**Gr6: Leader: Rahul Deshpande**

- (a) DRAM memory device, circuit diagram
- (b) Types of DRAM device and their application
- (c) Working Operation and where we use in computer?
- (d) Current status and major player in the world