Digital Logic Design

FRANTZ FANON UNIVERSITY

COLLAGE OF COMPUTING AND IT

DEPARTMENT OF ICT
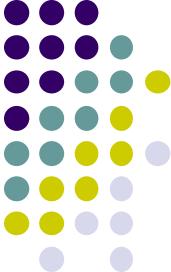
Suleiman Gargaare

MSc in Computer Science, MSc in Project Management & BSc in Information Technology.

Lecturer

suleiman.gargaare@gmail.com
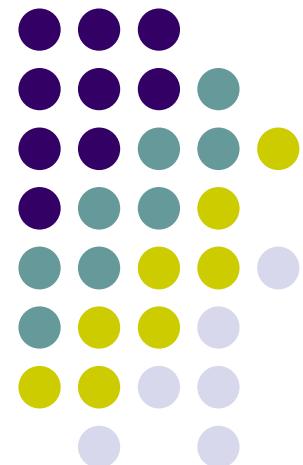
Course Contents
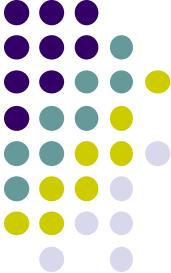
- Chapter 1 - Number Systems
- Chapter 2 - Binary Arithmetic
- Chapter 3 - Logic Gates
- Chapter 4 - Boolean Algebra
- **Chapter 5 – K-Map**

Digital Logic Design

Chapter 5 – Karnaugh Map
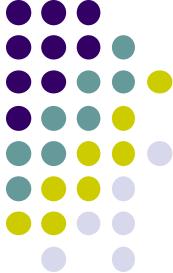
Assignment (25%)

Presentation
&
Discussion

WHAT'S THE PRESENTATION WILL ALL ABOUT IT
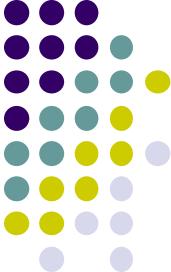
Karnaugh Map

- ✓ Brief History of K-Map

- ✓ How K-Map Works with Examples

- ✓ Explain Construction, Grouping, Solution, Inverse & Don't cares in K-Map.

- ✓ 2 Variable K-Map

GRADING & EVALUATION OF ASSIGNMENT

- The Presentation Document will be graded **10%** out of 25%.

- The way of explanation and presenting the PPT document will be graded **10%** out of 25%.

- The remaining **5%** will be how the group will answer the questions from the Lecturer and the audiences.

- The total Marks of this assignment is **25%**

SCHEDULE & PLAN OF THE PRESENTATION

❑ The class will be divided into **Six Groups**. Each group will have a maximum of **Six students**.

❑ The first three groups will be presenting on **Wednesday, April 6**.

❑ The remaining three groups will be presenting on **Thursday, April 7**.

❑ Each group will have **25 minutes** of **Presentation** and **5 more minutes** of **Question and Answering**.

❑ The number of **Presenters** will be on **2 students** the remaining **3 students** will be answered the questions.

❑ Each students must be in the class.

AFTERNOON CLASS: - Grouping

Group One

1. Abdiasiis Bashe Mohamed
2. Abdifatah Mahamed Imaan
3. Ahmed Abdi Maxamed
4. Amin Bacood Abdillahi
5. Amina Mohamoud Ali

Group Two
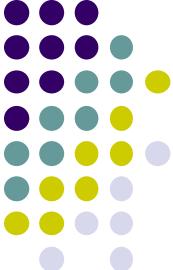
1. Awo Ali Abdi
2. Barwaaqo Sahal Ali
3. Fathi Mouse Hussein
4. Ibrahim Ali Jama
5. Jamal Muuse Muxumed

Group Three

1. Jimcaale Baashe Galiixe
2. Kalthum Awil Egeh
3. Khadar Adan Maxmed
4. Jimcaale Cabdi Aw Muuse
5. Marwo Mohamed Hussein

Group Four

1. Mohamed Adan Abdilahi
2. Mohamed Abdirashid Abdi
3. Mohamed Jamac Ali
4. Mohamed Mawlid Osman
5. Muhiyadin Omer Abdi
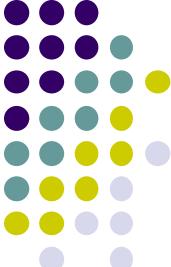
Group Five

1. Nacima Mohamed Adan
2. Nimco Mohamud Iidan
3. Omer Hirsi Jama
4. Ridwaana Nuur Abdillahi
5. Ridwaan Maxamuud Ismaaciil

Group Six

1. Umalkhair Abdirahman Osman
2. Xamse Ahmed Nuux
3. Xamse Xasan Diiriye
4. Zamiira Yusuf Ibraahim
5. Zamzam Adan Abdi

EVENING CLASS: - Grouping

Group One

1. Abdihakiim Ali Ahmed
2. Abdikani Qorane Osman
3. Abdikani Omer Ahmed
4. Abdillahi Dahir Moumin
5. Abdinasir Idiris Mohamed
6. Abdimajid Ahmed Adan

Group Two

1. Abdirahim Ahmed Osman
2. Abdishakur Ahmed Mohamud
3. Abdirisaq Ahmed Abdi
4. Abdiwadud Mohamed Dahir
5. Abshir Ahmed Abdi
6. Abubakar Khadar Ali
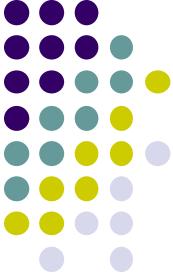
Group Three

1. Ayan Ibrahim Ahmed
2. Ayuub Ahmed Kabadhe
3. Deeqa Yuusuf Jamac
4. Hibo Jaamac Ciid
5. Hamse Abdi Mohamed
6. Hiis Abdirahman Salaad

Group Four

1. Jama Abdillahi Ali
2. Khadar Abdillahi Ali
3. Khalid Abdikariim Jama
4. Khalid Adam Hassan
5. Khalif Ahmed Kahin
6. Liban Harir Jama

Group Five

1. Mohamed Abdishakur Hassan

2. Muhiyadin Ahmed Ibrahim

3. Mukhtar Ahmed Yusuf

4. Nicima Ahmed Maax

5. Saed Mahad Warsame

Group Six

1. Saed Mohamed Arab
2. Subeer Ali Ahmed
3. Suber Mohamed Ali
4. Suhayb Abdirahman Mohamed
5. Wardi Hasan Abdi

The End